

ENERGY WEST MINING COMPANY

Department of Oil, Gas & Mining 1997 Annual Report

- ▶ **DEER CREEK MINE ACT/015/018**
- ▶ **DES-BEE-DOVE MINES ACT/015/017**
- ▶ **COTTONWOOD/WILBERG MINES ACT/015/019**
- ▶ **TRAIL MOUNTAIN MINE ACT/015/009**

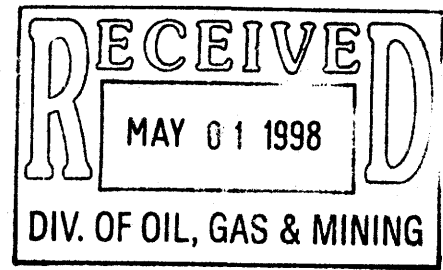
1997 Annual Report

- **Appendix A: Certified Reports**
- **Appendix B: Technical Data**
 - Separate Volumes: Hydrology Report**
 - Subsidence Report**
 - Vegetation Report**
- **Appendix C: Legal, Financial, Compliance & Related Information**
- **Appendix D: Mine Maps**
- **Appendix E: Other Information**



PACIFICORP





GENERAL INFORMATION

DEER CREEK MINE
GENERAL INFORMATION

GENERAL INFORMATION

1. Permit Number	ACT\015\018
2. Mine Name	DEER CREEK
3. Permittee Name	PACIFICORP
4. Operator Name (if other than Permittee)	ENERGY WEST MINING COMPANY
5. Permit Expiration Date	2-5-2001
6. Company Representative, Title	CHARLES A. SEMBORSKI GEOLOGY/ENVIRONMENTAL SUPERV.
7. Phone Number	(801) 687-4720
8. Fax Number	687-2695
9. Mailing Address	ENERGY WEST MINING CO. P. O. BOX 310 HUNTINGTON, UTAH 84528
10. Resident Agent, Title	CHARLES A. SEMBORSKI GEOLOGY/ENVIRONMENTAL SUPERV.
Mailing Address	ENERGY WEST MINING CO. P. O. BOX 310 HUNTINGTON, UTAH 84528

IDENTIFICATION OF OTHER PERMITS

Identify other permits which are required in conjunction with mining and reclamation activities.

Permit Type	ID Number	Description	Expires on
1. MSHA Mine ID(s)	42-0012	1 DEER CREEK MINE	N/A
2. MSHA Impoundment(s)		NONE	
3. NPDES/UPDES Permit(s) (water)	UT-0023	604 MINOR INDUSTRIAL	11-30-2002
4. PSD (Air) Permit(s)	DAQE 92	6-96 ISSUED 10-4-96 MINE TIPPLE	N/A
5.	DAQ 92	6-91 ISSUED 12-5-91 WASTE ROCK SITE	N/A

6.

CERTIFIED REPORTS

List the certified inspection reports as required by the rules and under the approved plan which must be periodically submitted to the Division. Specify whether the information is included as APPENDIX A to this Annual Report or currently ON FILE with the Division.

Certified Reports:	Reports Required?		INCLUDED or ON FILE w/DOGM?			Comments
	YES	NO	YES	NO	ON FILE	
1. Excess Spoil Piles		X		X		
2. Refuse Piles	X		X		X	QUARTERLY REPORT
3. Impoundments	X		X			SED. POND/WRS SED. POND
4.						
5.						

REPORTING OF OTHER TECHNICAL DATA

List other technical data and information as required under the approved plan which must be periodically submitted to the Division. Specify whether the information is included as APPENDIX B to this Annual Report or currently ON FILE with the Division.

Technical Data:	Reports Required?		INCLUDED or ON FILE w/DOGM?			Comments
	YES	NO	YES	NO	ON FILE	
1. Climatological Data		X	X		X	
2. Subsidence Monitoring Data	X		X			
3. Vegetation Monitoring Data	X		X			
4. Soils Monitoring Data	X		X			
5. Water Monitoring Data	X		X			
First Quarter Report	X		X			
Second Quarter Report	X		X			
Third Quarter Report	X		X			
Fourth Quarter Report	X		X			
6. Geological/Geophysical Data		X		X		
7. Engineering Data		X		X		
8. Other Data						

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LEGAL, FINANCIAL, COMPLIANCE AND RELATED INFORMATION

Changes in administration or corporate structure can often bring about necessary changes to information found in the mining and reclamation plan. The Division is requesting that each permittee review and update the legal, financial, compliance and related information in the plan as part of the Annual Report. Provide the Department of Commerce, Annual Report of Officers, or other equivalent information as necessary to ensure that the information provided in the plan is current. Provide any other changes as necessary regarding land ownership, lease acquisitions, legal results from appeals of violations, or other changes as necessary to update information required in the mining and reclamation plan. Include any certified financial statements, audits or worksheets which may be required to meet bonding requirements. Specify whether the information is currently ON FILE with the Division or included as APPENDIX C to this Annual Report.

Legal/Financial Data:	Report Required?		INCLUDED or ON FILE w/DOGM?			Comments
	YES	NO	YES	NO	ON FILE	
1. Department of Commerce, Annual Report of Officers	X		X			
2. Other						
UNAUDITED QUARTERLY REPORT						ASSOC ELEC & GAS SERV LIMIT.
CHANGE IN CORPORATE OFFICER	X		X			NEW LIST FOR 1997

MINE MAPS

Copies of mine maps, current and up-to-date through at least December 31, 1997, are to be provided to the Division as APPENDIX D to this Annual Report in accordance with the requirements of R645-301-525.270. These map copies shall be made in accordance with 30 CFR 75.1200, as required by MSHA. Upon request, mine maps shall be kept confidential by the Division.

Map Number(s)	Map Title / Description	Confidential?
	DEER CREEK MINE 1997 PRODUCTION MAP	YES

OTHER INFORMATION

Please provide any comments or further information to be included as part of the Annual Report. Any other attachments are to be provided as APPENDIX E to this Annual Report.

Additional attachments to this report? ☐ No ☒ Yes

DES-BEE-DOVE MINES

GENERAL INFORMATION

GENERAL INFORMATION

1. Permit Number	ACT/015/017
2. Mine Name	DES-BEE-DOVE
3. Permittee Name	PACIFICORP
4. Operator Name (if other than Permittee)	ENERGY WEST MINING COMPANY
5. Permit Expiration Date	9-6-2000
6. Company Representative, Title	CHARLES A. SEMBORSKI GEOLOGY/ENVIRONMENT SUPERV.
7. Phone Number	(801) 687-4720
8. Fax Number	687-2695
9. Mailing Address	ENERGY WEST MINING CO. P.O. BOX 310 HUNTINGTON, UTAH 84528
10. Resident Agent, Title	CHARLES A. SEMBORSKI GEOLOGY/ENVIRONMENT SUPERV.
Mailing Address	ENERGY WEST MINING CO. P.O. BOX 310 HUNTINGTON UTAH 84528

IDENTIFICATION OF OTHER PERMITS

Identify other permits which are required in conjunction with mining and reclamation activities.

Permit Type	ID Number	Description	Expires on
1. MSHA Mine ID(s)	42-0098	8, DESERET, 42-00082, BEEHIVE	N/A
	42-0139	3, LITTLE DOVE	
2. MSHA Impoundment(s)		NONE	
3. NPDES/UPDES Permit(s) (water)	UT-0023	591, MINOR INDUSTRIAL	4-30-98
4. PSD (Air) Permit(s)		N/A MINE IS IN CESSATION	
5.			

6.

CERTIFIED REPORTS

List the certified inspection reports as required by the rules and under the approved plan which must be periodically submitted to the Division. Specify whether the information is included as APPENDIX A to this Annual Report or currently ON FILE with the Division.

Certified Reports:	Reports Required?		INCLUDED or ON FILE w/DOGM?			Comments
	YES	NO	YES	NO	ON FILE	
1. Excess Spoil Piles		X		X		
2. Refuse Piles	X		X		X	
3. Impoundments	X		X		X	SED. POND
4.						
5.						

REPORTING OF OTHER TECHNICAL DATA

List other technical data and information as required under the approved plan which must be periodically submitted to the Division. Specify whether the information is included as APPENDIX B to this Annual Report or currently ON FILE with the Division.

Technical Data:	Reports Required?		INCLUDED or ON FILE w/DOGM?			Comments
	YES	NO	YES	NO	ON FILE	
1. Climatological Data		X	X		X	
2. Subsidence Monitoring Data	X		X			
3. Vegetation Monitoring Data	X		X			
4. Soils Monitoring Data	X		X			
5. Water Monitoring Data	X		X			
First Quarter Report	X		X		X	
Second Quarter Report	X		X		X	
Third Quarter Report	X		X		X	
Fourth Quarter Report	X		X		X	
6. Geological/Geophysical Data		X		X		
7. Engineering Data		X		X		
8. Other Data						

LEGAL, FINANCIAL, COMPLIANCE AND RELATED INFORMATION

Changes in administration or corporate structure can often bring about necessary changes to information found in the mining and reclamation plan. The Division is requesting that each permittee review and update the legal, financial, compliance and related information in the plan as part of the Annual Report. Provide the Department of Commerce, Annual Report of Officers, or other equivalent information as necessary to ensure that the information provided in the plan is current. Provide any other changes as necessary regarding land ownership, lease acquisitions, legal results from appeals of violations, or other changes as necessary to update information required in the mining and reclamation plan. Include any certified financial statements, audits or worksheets which may be required to meet bonding requirements. Specify whether the information is currently ON FILE with the Division or included as APPENDIX C to this Annual Report.

Legal/Financial Data:	Report Required?		INCLUDED or ON FILE w/DOGM?			Comments
	YES	NO	YES	NO	ON FILE	
1. Department of Commerce, Annual Report of Officers	X		X			
2. Other						
UNAUDITED QUARTERLY REPORT		X		X		ASSO. ELEC. & GAS SERV.LIMIT.
CHANGE IN CORPORATE OFFICER	X		X		X	

MINE MAPS

Copies of mine maps, current and up-to-date through at least December 31, 1997, are to be provided to the Division as APPENDIX D to this Annual Report in accordance with the requirements of R645-301-525.270. These map copies shall be made in accordance with 30 CFR 75.1200, as required by MSHA. Upon request, mine maps shall be kept confidential by the Division.

Map Number(s)	Map Title / Description	Confidential?
CU-229-E	DESERET MINE WORKINGS	X
CU-230-E	BEEHIVE AND LITTLE DOVE WORKINGS	X

OTHER INFORMATION

Please provide any comments or further information to be included as part of the Annual Report. Any other attachments are to be provided as APPENDIX E to this Annual Report.

Additional attachments to this report? ☐ No ☒ Yes

COTTONWOOD/WILBERG MINE

GENERAL INFORMATION

GENERAL INFORMATION

1. Permit Number	ACT/015/019
2. Mine Name	COTTONWOOD/WILBERG
3. Permittee Name	PACIFICORP
4. Operator Name (if other than Permittee)	ENERGY WEST MINING CO.
5. Permit Expiration Date	JULY 5, 1999
6. Company Representative, Title	CHARLES A. SEMBORSKI GEOLOGY/ENVIRONMENT SUPERV.
7. Phone Number	(801) 687-4720
8. Fax Number	687-2695
9. Mailing Address	ENERGY WEST MINING CO. P.O. BOX 310 HUNTINGTON, UTAH 84528
10. Resident Agent, Title	CHARLES A. SEMBORSKI GEOLOGY/ENVIRONMENT SUPERV.
Mailing Address	ENERGY WEST MINING CO. P.O. BOX 310 HUNTINGTON, UTAH 84528

IDENTIFICATION OF OTHER PERMITS

Identify other permits which are required in conjunction with mining and reclamation activities.

Permit Type	ID Number	Description	Expires on
1. MSHA Mine ID(s)	42-0194	4, COTTONWOOD/WILBERG	N/A
2. MSHA Impoundment(s)	1211-UT	-09-01944-01 NORTH POND	N/A
	1211-UT	-09-01944-02 SOUTH POND	N/A
3. NPDES/UPDES Permit(s) (water)	UT00228	96, MAJOR INDUSTRIAL	10-31-2002
4. PSD (Air) Permit(s)	DAQE694	-95, ISSUED 8-9-95 INCLUDES TRAIL	
5.	314-90	MTN. PREP-PLANT	

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6.		835-91		WASTE ROCK SITE		
CERTIFIED REPORTS						
List the certified inspection reports as required by the rules and under the approved plan which must be periodically submitted to the Division. Specify whether the information is included as APPENDIX A to this Annual Report or currently ON FILE with the Division.						
Certified Reports:	Reports Required?		INCLUDED or ON FILE w/DOGM?			Comments
	YES	NO	YES	NO	ON FILE	
1. Excess Spoil Piles		X		X		
2. Refuse Piles	X		X		X	COTTONWOOD WRS (NEW)
3. Impoundments	X		X			NO. & SO. PONDS, SED. PONDS
4.						CTW. CANYON, WRS POND
5.						
REPORTING OF OTHER TECHNICAL DATA						
List other technical data and information as required under the approved plan which must be periodically submitted to the Division. Specify whether the information is included as APPENDIX B to this Annual Report or currently ON FILE with the Division.						
Technical Data:	Reports Required?		INCLUDED or ON FILE w/DOGM?			Comments
	YES	NO	YES	NO	ON FILE	
1. Climatological Data		X		X	X	
2. Subsidence Monitoring Data	X		X			
3. Vegetation Monitoring Data	X		X			
4. Soils Monitoring Data	X		X			
5. Water Monitoring Data	X		X		X	
First Quarter Report	X		X		X	
Second Quarter Report	X		X		X	
Third Quarter Report	X		X		X	
Fourth Quarter Report	X		X		X	
6. Geological/Geophysical Data		X		X		
7. Engineering Data		X		X		
8. Other Data						

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Legal/Financial Data:	Report Required?		INCLUDED or ON FILE w/DOGM?			Comments
	YES	NO	YES	NO	ON FILE	
1. Department of Commerce, Annual Report of Officers		X	X			
2. Other						
CHANGE CORPORATE OFFICERS	X		X		X	NEW LIST '97
UNAUDITED QUARTERLY REPORTS						ASSO. ELEC. & GAS SERV. LIM

MINE MAPS

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Map Number(s)	Map Title / Description	Confidential?
	COTTONWOOD MINE 1997 PRODUCTION MAP	YES

OTHER INFORMATION

Please provide any comments or further information to be included as part of the Annual Report. Any other attachments are to be provided as APPENDIX E to this Annual Report.

Additional attachments to this report? ☐ No ☒ Yes

TRAIL MOUNTAIN MINE

GENERAL INFORMATION

GENERAL INFORMATION

1. Permit Number	ACT/015/009
2. Mine Name	TRAIL MOUNTAIN
3. Permittee Name	PACIFICORP
4. Operator Name (if other than Permittee)	ENERGY WEST MINING CO.
5. Permit Expiration Date	2-2-2002
6. Company Representative, Title	CHARLES A. SEMBORSKI GEOLOGY/ENVIRONMENT SUPERV.
7. Phone Number	(801) 687-4720
8. Fax Number	687-2695
9. Mailing Address	ENERGY WEST MINING CO. P.O. BOX 310 HUNTINGTON, UTAH 84528
10. Resident Agent, Title	CHARLES A. SEMBORSKI GEOLOGY/ENVIRONMENT SUPERV.
Mailing Address	ENERGY WEST MINING CO. P.O. BOX 310 HUNTINGTON, UTAH 84528

IDENTIFICATION OF OTHER PERMITS

Identify other permits which are required in conjunction with mining and reclamation activities.

Permit Type	ID Number	Description	Expires on
1. MSHA Mine ID(s)	42-0121	1, TRAIL MTN. MINE	N/A
2. MSHA Impoundment(s)		NONE	
3. NPDES/UPDES Permit(s) (water)	UTG-040	003, MINOR INDUSTRIAL	4-30-98
4. PSD (Air) Permit(s)	694-95	ISSUED 8-9-95	

5.		
6.		

CERTIFIED REPORTS

List the certified inspection reports as required by the rules and under the approved plan which must be periodically submitted to the Division. Specify whether the information is included as APPENDIX A to this Annual Report or currently ON FILE with the Division.

Certified Reports:	Reports Required?		INCLUDED or ON FILE w/DOGM?			Comments
	YES	NO	YES	NO	ON FILE	
1. Excess Spoil Piles		X		X		
2. Refuse Piles	X		X		X	
3. Impoundments	X		X			SED. POND
4.						
5.						

REPORTING OF OTHER TECHNICAL DATA

List other technical data and information as required under the approved plan which must be periodically submitted to the Division. Specify whether the information is included as APPENDIX B to this Annual Report or currently ON FILE with the Division.

Technical Data:	Reports Required?		INCLUDED or ON FILE w/DOGM?			Comments
	YES	NO	YES	NO	ON FILE	
1. Climatological Data		X	X		X	
2. Subsidence Monitoring Data	X		X			
3. Vegetation Monitoring Data	X		X			
4. Soils Monitoring Data		X		X		
5. Water Monitoring Data	X		X			
First Quarter Report	X		X			
Second Quarter Report	X		X			
Third Quarter Report	X		X			
Fourth Quarter Report	X		X			
6. Geological/Geophysical Data		X		X		
7. Engineering Data		X		X		
8. Other Data						

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Legal/Financial Data:	Report Required?		INCLUDED or ON FILE w/DOGM?			Comments
	YES	NO	YES	NO	ON FILE	
1. Department of Commerce, Annual Report of Officers	X		X			
2. Other						
UNAUDITED QUARTERLY REPORT						ASSO.ELEC & GAS SERV LIMIT.
CHANGE CORPORATE OFFICERS	X		X		X	

MINE MAPS

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Map Number(s)	Map Title / Description	Confidential?
	TRAIL MTN. MINE 1997 PRODUCTION MAP	YES

OTHER INFORMATION

Please provide any comments or further information to be included as part of the Annual Report. Any other attachments are to be provided as APPENDIX E to this Annual Report.

Additional attachments to this report? ☐ No ☒ Yes

APPENDIX A

Certified Reports

Excess Spoil Piles
Refuse Piles
Impoundments

as required under R645-301-514

CONTENTS

DEER CREEK WASTE ROCK SITE, INCLUDES ELK CANYON REPORTS

1ST QUARTER
2ND QUARTER
3RD QUARTER
4TH QUARTER

COTTONWOOD/TRAIL MTN./DES-BEE-DOVE WASTE ROCK SITE REPORTS

1ST QUARTER
2ND QUARTER
3RD QUARTER
4TH QUARTER

ANNUAL SEDIMENT POND REPORTS

DEER CREEK MINE
DEER CREEK WRS DETENTION
COTTONWOOD MINE NO. & SO. PONDS
COTTONWOOD CANYON BASINS NO. & SO.
COTTONWOOD WRS DETENTION
DES-BEE-DOVE MINE
TRAIL MTN. MINE

DEER CREEK MINE

WASTE ROCK REFUSE REPORTS

INSPECTION AND CERTIFIED REPORT ON EXCESS SPOIL PILE OR REFUSE PILE		Page 1 of 3	
Permit Number	ACT/015/018	Report Date	3/26/97
Mine Name	Deer Creek		
Company Name	Energy West Mining Co.		
Excess Spoil Pile or Refuse Pile Identification	Pile Name	Waste Rock Disposal Site	
	Pile Number		
	MSHA ID Number	1211-UT-09-00121-02	
Inspection Date	3/17/97		
Inspected By	John Christensen		
Reason for Inspection (Annual, Quarterly or Other Periodic Inspection, Critical Installation, or Completion of Construction)		1997 First Quarter Inspection	
		Attachments to Report? <input checked="" type="checkbox"/> No <input type="checkbox"/> Yes	
Field Evaluation			
<p>1. Foundation preparation, including the removal of all organic material and topsoil.</p> <p>All construction was done according to the permitted, professional engineered design specifications.</p>			
<p>2. Placement of underdrains and protective filter systems.</p> <p>An underdrain was installed when the site was constructed in 1989. The drain had a small amount of flow coming through it at the time of the inspection.</p>			
<p>3. Installation of final surface drainage systems.</p> <p>All interim slopes are maintained at their proper grade. The final slopes are surveyed to assure they are correct. Also the two final designed rip-rap ditches were installed as per the permitted plan and are extended as more lifts are added.</p>			

4. Placement and compaction of fill materials.

The site was leveled in early January with trash and extraneous materials removed. The active lift is at approximately 50% capacity.

5. Final grading and revegetation of fill.

See No. 3.

The sub-soil berm surrounding the site was seeded shortly after construction.

6. Appearances of instability, structural weakness, and other hazardous conditions.

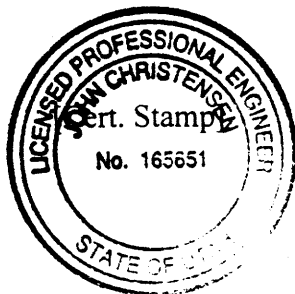
There were no signs of instability or weakness observed at the waste rock site area.

7. Other Comments. Describe any changes in the geometry of the Excess Spoil/Refuse Pile structure, instrumentation, average and maximum lifts of materials placed in the pile, elevations of active benches, total and remaining storage capacity of the structure, evidence of fires in the pile and abatement of such fires, volumes of materials placed in the structure during the year, and any other aspect of the structure affecting its stability or function which has occurred during the reporting period.

The total storage capacity of the Area #1 cell is 460,000 cubic yards. The elevation of the current lift varies with the required drainage slope. The surveyed elevation at the center of the active lift is 6342 ft. The final design elevation will be 6369 ft. The Area #1 cell is approximately 30% capacity.

The estimated volume of material hauled in 1997 to the site, as of March 1, is 2200 yards.

Certification
Statement



I hereby certify that: I am experienced in the construction of earth and rock fills; I am qualified and authorized in the State of Utah to inspect and certify the condition and appearance of earth and rock fills in accordance with the certified and approved designs for this structure; that the fill structure has been maintained in accordance with approved design and meet or exceed the minimum design requirements under all applicable federal, state and local regulations; and, that inspections and inspection reports are made by myself and include any appearances of instability, structural weakness or other hazardous conditions of the structure affecting stability.

By: JOHN CHRISTENSEN, SR. CONST. ENG.
(Full Name and Title)

Signature: John Christensen Date: 4/1/97

P.E. Number & State: 165651, UTAH

INSPECTION AND CERTIFIED REPORT ON EXCESS SPOIL PILE OR REFUSE PILE		Page 1 of 3	
Permit Number	ACT/015/018	Report Date	3/27/97
Mine Name	Deer Creek Mine		
Company Name	Energy West Mining Co.		
Excess Spoil Pile or Refuse Pile Identification	Pile Name	Elk Canyon/Original Site	
	Pile Number		
	MSHA ID Number	1211-UT-09-0041	
Inspection Date	3/17/97		
Inspected By	John Christensen		
Reason for Inspection (Annual, Quarterly or Other Periodic Inspection, Critical Installation, or Completion of Construction)		1997 First Quarter Inspection	
		Attachments to Report <input checked="" type="checkbox"/> No <input type="checkbox"/> Yes	
Field Evaluation			
<p>1. Foundation preparation, including the removal of all organic material and topsoil.</p> <p>The construction of both sites have been complete for some time in excess of 8 years. The foundations appear to be stable.</p>			
<p>2. Placement of underdrains and protective filter systems.</p> <p>None</p>			
<p>3. Installation of final surface drainage systems.</p> <p>The slopes of both sites have no rills, gullies or sloughage present.</p>			

4. Placement and compaction of fill materials.

No fill material is being placed at either site, since both are at their designed capacity. The Elk Canyon site contains approximately 24,000 cubic yards and the original site 90,000 cubic yards of fill material.

5. Final grading and revegetation of fill.

The sites are at capacity. The final grades are established and are revegetated.

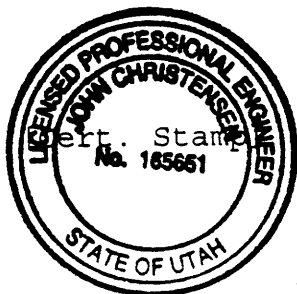
6. Appearances of instability, structural weakness, and other hazardous conditions.

None were observed.

7. Other Comments. Describe any changes in the geometry of the Excess Spoil/Refuse Pile structure, instrumentation, average and maximum lifts of materials placed in the pile, elevations of active benches, total and remaining storage capacity of the structure, evidence of fires in the pile and abatement of such fires, volumes of materials placed in the structure during the year, and any other aspect of the structure affecting its stability or function which has occurred during the reporting period.

The seepage area at the base of the original site was damp at the time of the inspection.

Certification
Statement



I hereby certify that; I am experienced in the construction of earth and rock fills; I am qualified and authorized in the State of Utah to inspect and certify the condition and appearance of earth and rock fills in accordance with the certified and approved designs for this structure; that the fill structure has been maintained in accordance with approved design and meet or exceed the minimum design requirements under all applicable federal, state and local regulations; and, that inspections and inspection reports are made by myself and include any appearances of instability, structural weakness or other hazardous conditions of the structure affecting stability.

By: JOHN CHRISTENSEN SR. CONSTRUCTION ENG.

(Full Name and Title)

Signature: John Christensen

Date: 4/1/97

P.E. Number & State: 165651 UTAH

INSPECTION AND CERTIFIED REPORT ON EXCESS SPOIL PILE OR REFUSE PILE		Page 1 of 3	
Permit Number	ACT/015/018	Report Date	6/13/97
Mine Name	Deer Creek		
Company Name	Energy West Mining Co.		
Excess Spoil Pile or Refuse Pile Identification	Pile Name	Waste Rock Disposal Site	
	Pile Number		
	MSHA ID Number	1211-UT-09-00121-02	
Inspection Date	6/12/97		
Inspected By	John Christensen		
Reason for Inspection (Annual, Quarterly or Other Periodic Inspection, Critical Installation, or Completion of Construction)		1997 Second Quarter Inspection	
		Attachments to Report? x <input type="checkbox"/> No <input type="checkbox"/> Yes	
Field Evaluation			
<p>1. Foundation preparation, including the removal of all organic material and topsoil.</p> <p>All construction was done according to the permitted, professional engineered design specifications.</p>			
<p>2. Placement of underdrains and protective filter systems.</p> <p>An underdrain was installed when the site was constructed in 1989. The drain had a small amount of flow coming through it at the time of the inspection.</p>			
<p>3. Installation of final surface drainage systems.</p> <p>All interim slopes are maintained at their proper grade. The final slopes are surveyed to assure they are correct. Also the two final designed rip-rap ditches were installed as per the permitted plan and are extended as more lifts are added.</p>			

4. Placement and compaction of fill materials.

The site was leveled in the 2nd Quarter with trash and extraneous materials removed. The active lift is at approximately 40% capacity.

5. Final grading and revegetation of fill.

See No. 3.

The sub-soil berm surrounding the site was seeded shortly after construction.

6. Appearances of instability, structural weakness, and other hazardous conditions.

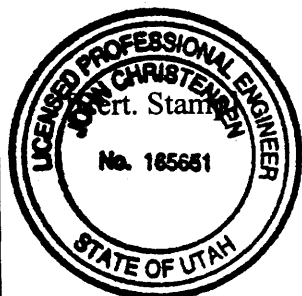
There were no signs of instability or weakness observed at the waste rock site area.

7. Other Comments. Describe any changes in the geometry of the Excess Spoil/Refuse Pile structure, instrumentation, average and maximum lifts of materials placed in the pile, elevations of active benches, total and remaining storage capacity of the structure, evidence of fires in the pile and abatement of such fires, volumes of materials placed in the structure during the year, and any other aspect of the structure affecting its stability or function which has occurred during the reporting period.

The total storage capacity of the Area #1 cell is 460,000 cubic yards. The elevation of the current lift varies with the required drainage slope. The surveyed elevation at the center of the active lift is 6344 ft. The final design elevation will be 6369 ft. The Area #1 cell is approximately 30% capacity.

The estimated volume of material hauled in 1997 to the site, as of June 1, is 5600 yards.

Certification
Statement



I hereby certify that; I am experienced in the construction of earth and rock fills; I am qualified and authorized in the State of Utah to inspect and certify the condition and appearance of earth and rock fills in accordance with the certified and approved designs for this structure; that the fill structure has been maintained in accordance with approved design and meet or exceed the minimum design requirements under all applicable federal, state and local regulations; and, that inspections and inspection reports are made by myself and include any appearances of instability, structural weakness or other hazardous conditions of the structure affecting stability.

By: JOHN CHRISTENSEN, SR. CONSTRUCTION ENG.
(Full Name and Title)

Signature: [Signature] Date: 6/13/97
P.E. Number & State: 165651 UTAH

INSPECTION AND CERTIFIED REPORT ON EXCESS SPOIL PILE OR REFUSE PILE		Page 1 of 3	
Permit Number	ACT/015/018	Report Date	6/13/97
Mine Name	Deer Creek Mine		
Company Name	Energy West Mining Co.		
Excess Spoil Pile or Refuse Pile Identification	File Name	Elk Canyon/Original Site	
	File Number		
	MSHA ID Number	1211-UT-09-0041	
Inspection Date	6/13/97		
Inspected By	John Christensen		
Reason for Inspection (Annual, Quarterly or Other Periodic Inspection, Critical Installation, or Completion of Construction)		1997 Second Quarter Inspection	
		Attachments to Report <input checked="" type="checkbox"/> No <input type="checkbox"/> Yes	
Field Evaluation			
<p>1. Foundation preparation, including the removal of all organic material and topsoil.</p> <p>The construction of both sites have been complete for some time in excess of 8 years. The foundations appear to be stable.</p>			
<p>2. Placement of underdrains and protective filter systems.</p> <p>None</p>			
<p>3. Installation of final surface drainage systems.</p> <p>The slopes of both sites have no rills, gullies or sloughage present.</p>			

4. Placement and compaction of fill materials.

No fill material is being placed at either site, since both are at their designed capacity. The Elk Canyon site contains approximately 24,000 cubic yards and the original site 90,000 cubic yards of fill material.

5. Final grading and revegetation of fill.

The sites are at capacity. The final grades are established and are revegetated.

6. Appearances of instability, structural weakness, and other hazardous conditions.

None were observed.

7. Other Comments. Describe any changes in the geometry of the Excess Spoil/Refuse Pile structure, instrumentation, average and maximum lifts of materials placed in the pile, elevations of active benches, total and remaining storage capacity of the structure, evidence of fires in the pile and abatement of such fires, volumes of materials placed in the structure during the year, and any other aspect of the structure affecting its stability or function which has occurred during the reporting period.

The seepage area at the base of the original site was damp at the time of the inspection.

There was no coal stored in the Elk Canyon pad at the time of inspection.

Certification
Statement



I hereby certify that; I am experienced in the construction of earth and rock fills; I am qualified and authorized in the State of Utah to inspect and certify the condition and appearance of earth and rock fills in accordance with the certified and approved designs for this structure; that the fill structure has been maintained in accordance with approved design and meet or exceed the minimum design requirements under all applicable federal, state and local regulations; and, that inspections and inspection reports are made by myself and include any appearances of instability, structural weakness or other hazardous conditions of the structure affecting stability.

By: JOHN CHRISTENSEN, SR. CONSTRUCTION ENGINEER
(Full Name and Title)

Signature: John Christensen Date: 6/13/97

P.E. Number & State: 165651 UTAH

INSPECTION AND CERTIFIED REPORT ON EXCESS SPOIL PILE OR REFUSE PILE		Page 1 of 3	
Permit Number	ACT/015/018	Report Date	10/09/97
Mine Name	Deer Creek		
Company Name	Energy West Mining Co.		
Excess Spoil Pile or Refuse Pile Identification	Pile Name	Waste Rock Disposal Site	
	Pile Number		
	MSHA ID Number	1211-UT-09-00121-02	
Inspection Date	9/16/97		
Inspected By	John Christensen/Richard Jensen		
Reason for Inspection (Annual, Quarterly or Other Periodic Inspection, Critical Installation, or Completion of Construction)		1997 Third Quarter Inspection	
		Attachments to Report? <input checked="" type="checkbox"/> No <input type="checkbox"/> Yes	
Field Evaluation			
<p>1. Foundation preparation, including the removal of all organic material and topsoil.</p> <p>All construction was done according to the permitted, professional engineered design specifications.</p>			
<p>2. Placement of underdrains and protective filter systems.</p> <p>An underdrain was installed when the site was constructed in 1989. The drain had a fair amount of flow coming through it at the time of the inspection. This is of no concern with all the rainfall this year.</p>			
<p>3. Installation of final surface drainage systems.</p> <p>All interim slopes are maintained at their proper grade. The final slopes are surveyed to assure they are correct. Also the two final designed rip-rap ditches were installed as per the permitted plan and are extended as more lifts are added.</p>			

4. Placement and compaction of fill materials.

The site was leveled in early January with trash and extraneous materials removed. The active lift is at approximately 70% capacity.

5. Final grading and revegetation of fill.

See No. 3.

The sub-soil berm surrounding the site was seeded shortly after construction.

6. Appearances of instability, structural weakness, and other hazardous conditions.

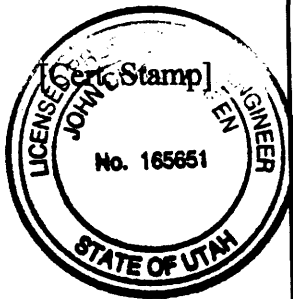
There were no signs of instability or weakness observed at the waste rock site area.

7. Other Comments. Describe any changes in the geometry of the Excess Spoil/Refuse Pile structure, instrumentation, average and maximum lifts of materials placed in the pile, elevations of active benches, total and remaining storage capacity of the structure, evidence of fires in the pile and abatement of such fires, volumes of materials placed in the structure during the year, and any other aspect of the structure affecting its stability or function which has occurred during the reporting period.

The total storage capacity of the Area #1 cell is 460,000 cubic yards. The elevation of the current lift varies with the required drainage slope. The surveyed elevation at the center of the active lift is 6342 ft. The final design elevation will be 6369 ft. The Area #1 cell is approximately 30% capacity.

The estimated volume of material hauled in 1997 to the site, as of September 1, is 8484 yards.

**Certification
Statement**



I hereby certify that; I am experienced in the construction of earth and rock fills; I am qualified and authorized in the State of Utah to inspect and certify the condition and appearance of earth and rock fills in accordance with the certified and approved designs for this structure; that the fill structure has been maintained in accordance with approved design and meet or exceed the minimum design requirements under all applicable federal, state and local regulations; and, that inspections and inspection reports are made by myself and include any appearances of instability, structural weakness or other hazardous conditions of the structure affecting stability.

By: John Christensen, CONST. ENG.
(Full Name and Title)

Signature: John Christensen Date: 10/24/97

P.E. Number & State: 165651 UT.

INSPECTION AND CERTIFIED REPORT ON EXCESS SPOIL PILE OR REFUSE PILE		Page 1 of	
Permit Number	ACT/015/018	Report Date	10/09/97
Mine Name	Deer Creek Mine		
Company Name	Energy West Mining Company		
Excess Spoil Pile or Refuse Pile Identification	File Name	ELK CANYON/ORIGINAL SITE	
	File Number		
	MSHA ID Number	1211-UT-09-0041	
Inspection Date	9/11/97		
Inspected By	John Christensen		
Reason for Inspection (Annual, Quarterly or Other Periodic Inspection, Critical Installation, or Completion of Construction)		1997 Third Quarter Inspection	
		Attachments to Report? <input type="checkbox"/> No <input type="checkbox"/> Yes	
Field Evaluation			
<p>1. Foundation preparation, including the removal of all organic material and topsoil.</p> <p>The construction of both sites have been complete for some time in excess of 8 years. The foundations appear to be stable.</p>			
<p>2. Placement of underdrains and protective filter systems.</p> <p>None</p>			
<p>3. Installation of final surface drainage systems.</p> <p>The slopes of both sites have no rills, gullies or sloughage present.</p>			

4. Placement and compaction of fill materials.

No fill material is being placed at either site, since both are at their designed capacity. The Elk Canyon site contains approximately 24,000 cubic yards and the original site 90,000 cubic yards of fill material

5. Final grading and revegetation of fill.

The sites are at capacity. The final grades are established and are revegetated.

6. Appearances of instability, structural weakness, and other hazardous conditions.

None were observed.

7. Other Comments. Describe any changes in the geometry of the Excess Spoil/Refuse Pile structure, instrumentation, average and maximum lifts of materials placed in the pile, elevations of active benches, total and remaining storage capacity of the structure, evidence of fires in the pile and abatement of such fires, volumes of materials placed in the structure during the year, and any other aspect of the structure affecting its stability or function which has occurred during the reporting period.

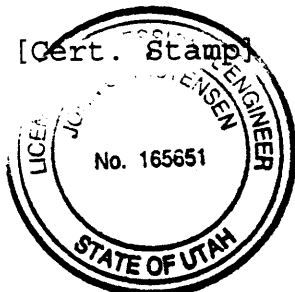
The seepage area at the base of the original site was slightly damp at the time of the inspection.

There was no coal stored in the Elk Canyon pad at the time of inspection.

Certification
Statement

I hereby certify that; I am experienced in the construction of earth and rock fills; I am qualified and authorized in the State of Utah to inspect and certify the condition and appearance of earth and rock fills in accordance with the certified and approved designs for this structure; that the fill structure has been maintained in accordance with approved design and meet or exceed the minimum design requirements under all applicable federal, state and local regulations; and, that inspections and inspection reports are made by myself and include any appearances of instability, structural weakness or other hazardous conditions of the structure affecting stability.

[Cert. Stamp]



By: JOHN CHRISTENSEN, CONSTRUCTION ENGINEER
(Full Name and Title)

Signature: [Signature] Date: 10/24/97

P.E. Number & State: 165651 UTAH

INSPECTION AND CERTIFIED REPORT ON EXCESS SPOIL PILE OR REFUSE PILE		Page 1 of	
Permit Number	ACT/015/018	Report Date	January 13, 1998
Mine Name	Deer Creek		
Company Name	Energy West Mining Co.		
Excess Spoil Pile or Refuse Pile Identification	File Name	Waste Rock Disposal Site	
	File Number		
	MSHA ID Number	1211-UT-09-00121-02	
Inspection Date	12/30/97		
Inspected By	John Christensen/Richard Jensen		
Reason for Inspection (Annual, Quarterly or Other Periodic Inspection, Critical Installation, or Completion of Construction)		1997 Fourth Quarter Inspection	
		Attachments to Report? <input checked="" type="checkbox"/> No <input type="checkbox"/> Yes	
Field Evaluation			
<p>1. Foundation preparation, including the removal of all organic material and topsoil.</p> <p>All construction was done according to the permitted, professional engineered design specifications.</p>			
<p>2. Placement of underdrains and protective filter systems.</p> <p>An underdrain was installed when the site was constructed in 1989. The drain had a small amount of flow coming through it at the time of the inspection.</p>			
<p>3. Installation of final surface drainage systems.</p> <p>All interim slopes are maintained at their proper grade. The final slopes are surveyed to assure they are correct. Also the two final designed rip-rap ditches were installed as per the permitted plan and are extended as more lifts are added.</p>			

4. Placement and compaction of fill materials.

The site was leveled in October, trash and extraneous material were removed. The active lift is at approximately 30% capacity.

5. Final grading and revegetation of fill.

See No. 3.

The sub-soil berm surrounding the site was seeded shortly after construction.

6. Appearances of instability, structural weakness, and other hazardous conditions.

There were no signs of instability or weakness observed at the waste rock site area.

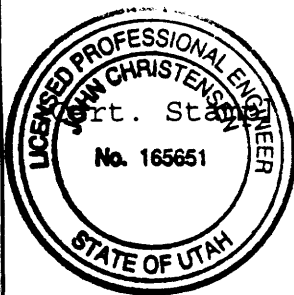
7. Other Comments. Describe any changes in the geometry of the Excess Spoil/Refuse Pile structure, instrumentation, average and maximum lifts of materials placed in the pile, elevations of active benches, total and remaining storage capacity of the structure, evidence of fires in the pile and abatement of such fires, volumes of materials placed in the structure during the year, and any other aspect of the structure affecting its stability or function which has occurred during the reporting period.

The total storage capacity of the Area #1 cell is 460,000 cubic yards. The elevation of the current lift varies with the required drainage slope. The surveyed elevation at the center of the active lift is 6342 ft. The final design elevation will be 6369 ft. The Area #1 cell is approximately 30% capacity.

The estimated volume of material hauled in 1997 to the site was 13,722 cubic yards.

Containment basins were constructed within the #1 cell to hold sediment from the cleaning of the Deer Creek mine site sediment pond. The cleaning was completed in December 1997. A small amount of water was transported to the waste rock site pond in association with the sediment cleaning process. The waste rock site access road was graded following the sediment cleaning.

Certification
Statement



I hereby certify that; I am experienced in the construction of earth and rock fills; I am qualified and authorized in the State of Utah to inspect and certify the condition and appearance of earth and rock fills in accordance with the certified and approved designs for this structure; that the fill structure has been maintained in accordance with approved design and meet or exceed the minimum design requirements under all applicable federal, state and local regulations; and, that inspections and inspection reports are made by myself and include any appearances of instability, structural weakness or other hazardous conditions of the structure affecting stability.

By: John Christensen, Construction Engineer
(Full Name and Title)

Signature: John Christensen

Date: 1/15/98

P.E. Number & State: 165651, Utah

INSPECTION AND CERTIFIED REPORT ON EXCESS SPOIL PILE OR REFUSE PILE		Page 1 of	
Permit Number	ACT/015/018	Report Date	January 13, 1998
Mine Name	Deer Creek Mine		
Company Name	Energy West Mining Company		
Excess Spoil Pile or Refuse Pile Identification	File Name	ELK CANYON/ORIGINAL SITE	
	File Number		
	MSHA ID Number	1211-UT-09-0041	
Inspection Date	12/30/97		
Inspected By	John Christensen		
Reason for Inspection (Annual, Quarterly or Other Periodic Inspection, Critical Installation, or Completion of Construction)		1997 4th Quarter Inspection	
		Attachments to Report? <input checked="" type="checkbox"/> No <input type="checkbox"/> Yes	
Field Evaluation			
<p>1. Foundation preparation, including the removal of all organic material and topsoil.</p> <p>The construction of both sites have been complete for some time in excess of 8 years. The foundations appear to be stable.</p>			
<p>2. Placement of underdrains and protective filter systems.</p> <p>None</p>			
<p>3. Installation of final surface drainage systems.</p> <p>The slopes of both sites have no rills, gullies or sloughage present.</p>			

4. Placement and compaction of fill materials.

No fill material is being placed at either site, since both are at their designed capacity. The ELK Canyon site contains approximately 24,000 cubic yards and the original site 90,000 cubic yards of fill material.

5. Final grading and revegetation of fill.

The sites are at capacity. The final grades are established and are revegetated.

6. Appearances of instability, structural weakness, and other hazardous conditions.

None were observed. Both sites presently have a covering of snow.

7. Other Comments. Describe any changes in the geometry of the Excess Spoil/Refuse Pile structure, instrumentation, average and maximum lifts of materials placed in the pile, elevations of active benches, total and remaining storage capacity of the structure, evidence of fires in the pile and abatement of such fires, volumes of materials placed in the structure during the year, and any other aspect of the structure affecting its stability or function which has occurred during the reporting period.

There was no coal stored in the Elk Canyon pad at the time of inspection.

Certification
Statement



I hereby certify that; I am experienced in the construction of earth and rock fills; I am qualified and authorized in the State of Utah to inspect and certify the condition and appearance of earth and rock fills in accordance with the certified and approved designs for this structure; that the fill structure has been maintained in accordance with approved design and meet or exceed the minimum design requirements under all applicable federal, state and local regulations; and, that inspections and inspection reports are made by myself and include any appearances of instability, structural weakness or other hazardous conditions of the structure affecting stability.

By: John Christensen, Construction Engineer
(Full Name and Title)

Signature: John Christensen

Date: 1/15/98

P.E. Number & State: 165651, Utah

COTTONWOOD WASTE ROCK REPORTS

INSPECTION AND CERTIFIED REPORT ON EXCESS SPOIL PILE OR REFUSE PILE		Page 1 of 3	
Permit Number	ACT/015/017, ACT/015/019	Report Date	3/31/97
Mine Name	Cottonwood/Wilberg/Des Bee Dove/Trail Mountain		
Company Name	Energy West Mining		
Excess Spoil Pile or Refuse Pile Identification	Pile Name	Cottonwood Waste Rock Site	
	Pile Number		
	MSHA ID Number	1211-UT-09-01944-01	
Inspection Date	3/21/97		
Inspected By	John Christensen		
Reason for Inspection (Annual, Quarterly or Other Periodic Inspection, Critical Installation, or Completion of Construction)		1997 First Quarter Inspection	
		Attachments to Report? <input checked="" type="checkbox"/> No <input type="checkbox"/> Yes	
Field Evaluation			
<p>1. Foundation preparation, including the removal of all organic material and topsoil.</p> <p>Foundation was prepared according to the approved plan.</p>			
<p>2. Placement of underdrains and protective filter systems.</p> <p>Not applicable.</p>			
<p>3. Installation of final surface drainage systems.</p> <p>The west inlet rip rap ditch to the sediment pond remains in good operative condition, as well as the easterly rip rap channel.</p>			

4. Placement and compaction of fill materials.

The refuse piles are leveled in lifts with trash and extraneous material sorted according to the permitted plan. The active lift is approximately 60% capacity.

5. Final grading and revegetation of fill.

The outslopes of each containment/lift berm have had final grading and vegetation completed.

6. Appearances of instability, structural weakness, and other hazardous conditions.

There is evidence of a couple of settlement fractures on the top of the present lift's berm. These are located on the southeast end and will be monitored more closely in the future.

7. Other Comments. Describe any changes in the geometry of the Excess Spoil/Refuse Pile structure, instrumentation, average and maximum lifts of materials placed in the pile, elevations of active benches, total and remaining storage capacity of the structure, evidence of fires in the pile and abatement of such fires, volumes of materials placed in the structure during the year, and any other aspect of the structure affecting its stability or function which has occurred during the reporting period.

The total storage capacity of the site is 784,000 cubic yards. The elevation of the current lift varies with the required drainage slope. The surveyed elevation at the center of the active lift is 6797 ft. The final design elevation will be 6850 ft. The site is approximately 35% capacity. The estimated volume hauled to the site in 1997, as of March 1, is 6900 cubic yards.

Certification
Statement



I hereby certify that; I am experienced in the construction of earth and rock fills; I am qualified and authorized in the State of Utah to inspect and certify the condition and appearance of earth and rock fills in accordance with the certified and approved designs for this structure; that the fill structure has been maintained in accordance with approved design and meet or exceed the minimum design requirements under all applicable federal, state and local regulations; and, that inspections and inspection reports are made by myself and include any appearances of instability, structural weakness or other hazardous conditions of the structure affecting stability.

By: JOHN CHRISTENSEN, SR. CONSTRUCTION ENG.
(Full Name and Title)

Signature: John Christensen Date: 4/1/97

P.E. Number & State: 165651 UTAH

INSPECTION AND CERTIFIED REPORT ON EXCESS SPOIL PILE OR REFUSE PILE		Page 1 of 3	
Permit Number	ACT/015/017 ACT/015/019	Report Date	3/31/97
Mine Name	Cottonwood/Wilberg/Des Bee Dove		
Company Name	Energy West Mining Co.		
Excess Spoil Pile or Refuse Pile Identification	Pile Name	Old Waste Rock Site	
	Pile Number		
	MSHA ID Number	42-01944 & 42-00988	
Inspection Date	3/21/97		
Inspected By	John Christensen		
Reason for Inspection (Annual, Quarterly or Other Periodic Inspection, Critical Installation, or Completion of Construction)		1997 First Quarter Inspection	
		Attachments to Report? <input checked="" type="checkbox"/> No <input type="checkbox"/> Yes	
Field Evaluation			
<p>1. Foundation preparation, including the removal of all organic material and topsoil.</p> <p>Constructed according to plan.</p>			
<p>2. Placement of underdrains and protective filter systems.</p> <p>Not applicable.</p>			
<p>3. Installation of final surface drainage systems.</p> <p>All surfaces are at final slope and drainage established.</p>			

4. Placement and compaction of fill materials.

This site is complete and at capacity.

5. Final grading and revegetation of fill.

Site is complete and vegetation has been established.

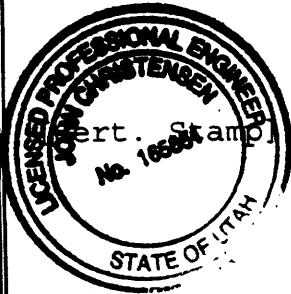
6. Appearances of instability, structural weakness, and other hazardous conditions.

None observed.

7. Other Comments. Describe any changes in the geometry of the Excess Spoil/Refuse Pile structure, instrumentation, average and maximum lifts of materials placed in the pile, elevations of active benches, total and remaining storage capacity of the structure, evidence of fires in the pile and abatement of such fires, volumes of materials placed in the structure during the year, and any other aspect of the structure affecting its stability or function which has occurred during the reporting period.

No changes in the site have occurred since the last inspection. The berm on the southern end of the pile had been breached from recent storm runoff. It was repaired and is back to original condition.

Certification
Statement



I hereby certify that; I am experienced in the construction of earth and rock fills; I am qualified and authorized in the State of Utah to inspect and certify the condition and appearance of earth and rock fills in accordance with the certified and approved designs for this structure; that the fill structure has been maintained in accordance with approved design and meet or exceed the minimum design requirements under all applicable federal, state and local regulations; and, that inspections and inspection reports are made by myself and include any appearances of instability, structural weakness or other hazardous conditions of the structure affecting stability.

By: JOHN CHRISTENSEN, SR. CONSTRUCTION ENG.

(Full Name and Title)

Signature: John Christensen Date: 4/1/97

P.E. Number & State: 165651 UTAH

INSPECTION AND CERTIFIED REPORT ON EXCESS SPOIL PILE OR REFUSE PILE		Page 1 of 3	
Permit Number	ACT/015/017, ACT/015/019		Report Date 6/13/97
Mine Name	Cottonwood/Wilberg/Des Bee Dove/Trail Mountain		
Company Name	Energy West Mining		
Excess Spoil Pile or Refuse Pile Identification	File Name	Cottonwood Waste Rock Site	
	File Number		
	MSHA ID Number	1211-UT-09-01944-01	
Inspection Date	6/9/97		
Inspected By	John Christensen		
Reason for Inspection (Annual, Quarterly or Other Periodic Inspection, Critical Installation, or Completion of Construction)		1997 Second Quarter Inspection	
		Attachments to Report? <input checked="" type="checkbox"/> No <input type="checkbox"/> Yes	
Field Evaluation			
<p>1. Foundation preparation, including the removal of all organic material and topsoil.</p> <p>Foundation was prepared according to the approved plan.</p>			
<p>2. Placement of underdrains and protective filter systems.</p> <p>Not applicable.</p>			
<p>3. Installation of final surface drainage systems.</p> <p>The west inlet rip rap will require repair as a result of recent storms.</p>			

4. Placement and compaction of fill materials.

The refuse piles are leveled in lifts with trash and extraneous material sorted according to the permitted plan. The active lift is approximately 25% capacity. The site was leveled during the 2nd quarter.

5. Final grading and revegetation of fill.

The outslopes of each containment/lift berm have had final grading and vegetation completed.

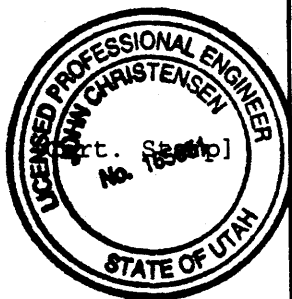
6. Appearances of instability, structural weakness, and other hazardous conditions.

There is evidence of a couple of settlement fractures on the top of the present lift's berm. These are located on the southeast end and will be monitored more closely in the future.

7. Other Comments. Describe any changes in the geometry of the Excess Spoil/Refuse Pile structure, instrumentation, average and maximum lifts of materials placed in the pile, elevations of active benches, total and remaining storage capacity of the structure, evidence of fires in the pile and abatement of such fires, volumes of materials placed in the structure during the year, and any other aspect of the structure affecting its stability or function which has occurred during the reporting period.

The total storage capacity of the site is 784,000 cubic yards. The elevation of the current lift varies with the required drainage slope. The surveyed elevation at the center of the active lift is 6798 ft. The final design elevation will be 6850 ft. The site is approximately 35% capacity. The estimated volume hauled to the site in 1997, as of June 1, is 12988 cubic yards.

Certification
Statement



I hereby certify that; I am experienced in the construction of earth and rock fills; I am qualified and authorized in the State of Utah to inspect and certify the condition and appearance of earth and rock fills in accordance with the certified and approved designs for this structure; that the fill structure has been maintained in accordance with approved design and meet or exceed the minimum design requirements under all applicable federal, state and local regulations; and, that inspections and inspection reports are made by myself and include any appearances of instability, structural weakness or other hazardous conditions of the structure affecting stability.

By: JOHN CHRISTENSEN, SR. CONSTRUCTION ENG.
(Full Name and Title)

Signature: John Christensen Date: 6/13/97

P.E. Number & State: 165651 UTAH

INSPECTION AND CERTIFIED REPORT ON EXCESS SPOIL PILE OR REFUSE PILE		Page 1 of 3	
Permit Number	ACT/015/017 ACT/015/019	Report Date: 6/13/97	
Mine Name	Cottonwood/Wilberg/Des Bee Dove		
Company Name	Energy West Mining Co.		
Excess Spoil Pile or Refuse Pile Identification	File Name	Old Waste Rock Site	
	File Number		
	MSHA ID Number	42-01944 & 42-00988	
Inspection Date	6/12/97		
Inspected By	John Christensen		
Reason for Inspection (Annual, Quarterly or Other Periodic Inspection, Critical Installation, or Completion of Construction)		1997 Second Quarter Inspection	
		Attachments to Report? <input checked="" type="checkbox"/> No <input type="checkbox"/> Yes	
Field Evaluation			
<p>1. Foundation preparation, including the removal of all organic material and topsoil. .</p> <p>Constructed according to plan.</p>			
<p>2. Placement of underdrains and protective filter systems.</p> <p>Not applicable.</p>			
<p>3. Installation of final surface drainage systems.</p> <p>All surfaces are at final slope and drainage established.</p>			

4. Placement and compaction of fill materials.

This site is complete and at capacity.

5. Final grading and revegetation of fill.

Site is complete and vegetation has been established.

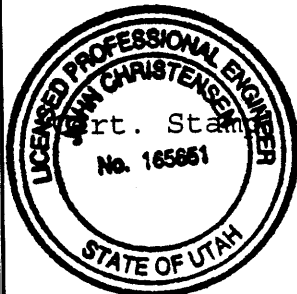
6. Appearances of instability, structural weakness, and other hazardous conditions.

None observed.

7. Other Comments. Describe any changes in the geometry of the Excess Spoil/Refuse Pile structure, instrumentation, average and maximum lifts of materials placed in the pile, elevations of active benches, total and remaining storage capacity of the structure, evidence of fires in the pile and abatement of such fires, volumes of materials placed in the structure during the year, and any other aspect of the structure affecting its stability or function which has occurred during the reporting period.

No changes in the site have occurred since the last inspection.

Certification
Statement



I hereby certify that; I am experienced in the construction of earth and rock fills; I am qualified and authorized in the State of Utah to inspect and certify the condition and appearance of earth and rock fills in accordance with the certified and approved designs for this structure; that the fill structure has been maintained in accordance with approved design and meet or exceed the minimum design requirements under all applicable federal, state and local regulations; and, that inspections and inspection reports are made by myself and include any appearances of instability, structural weakness or other hazardous conditions of the structure affecting stability.

By: JOHN CHRISTENSEN, SR. CONSTRUCTION ENG.
(Full Name and Title)

Signature: *John Christensen* Date: 6/13/97

P.E. Number & State: 165651 UTAH

INSPECTION AND CERTIFIED REPORT ON EXCESS SPOIL PILE OR REFUSE PILE		??	Page 1 of
Permit Number	ACT/015/0017 ACT/015/019	Report Date	October 9, 1997
Mine Name	Cottonwood/Wilberg/Des Bee Dove		
Company Name			
Excess Spoil Pile or Refuse Pile Identification	Pile Name	Old Waste Rock Site	
	Pile Number		
	MSHA ID Number	42-01944 & 42-00988	
Inspection Date	9/15/97		
Inspected By	John Christensen and Richard Jensen		
Reason for Inspection (Annual, Quarterly or Other Periodic Inspection, Critical Installation, or Completion of Construction)		1997 Third Quarter Inspection	
		Attachments to Report? <input type="checkbox"/> No <input type="checkbox"/> Yes	
Field Evaluation			
<p>1. Foundation preparation, including the removal of all organic material and topsoil.</p> <p>Constructed according to plan.</p>			
<p>2. Placement of underdrains and protective filter systems.</p> <p>Not Applicable</p>			
<p>3. Installation of final surface drainage systems.</p> <p>All surfaces are at final slope and drainage established.</p>			

4. Placement and compaction of fill materials.

This site is complete and at capacity.

5. Final grading and revegetation of fill.

Site is complete and vegetation has been established.

6. Appearances of instability, structural weakness, and other hazardous conditions.

None observed.

7. Other Comments. Describe any changes in the geometry of the Excess Spoil/Refuse Pile structure, instrumentation, average and maximum lifts of materials placed in the pile, elevations of active benches, total and remaining storage capacity of the structure, evidence of fires in the pile and abatement of such fires, volumes of materials placed in the structure during the year, and any other aspect of the structure affecting its stability or function which has occurred during the reporting period.

No changes in the site have occurred since the last inspection.

**Certification
Statement**



I hereby certify that; I am experienced in the construction of earth and rock fills; I am qualified and authorized in the State of Utah to inspect and certify the condition and appearance of earth and rock fills in accordance with the certified and approved designs for this structure; that the fill structure has been maintained in accordance with approved design and meet or exceed the minimum design requirements under all applicable federal, state and local regulations; and, that inspections and inspection reports are made by myself and include any appearances of instability, structural weakness or other hazardous conditions of the structure affecting stability.

By: JOHN CHRISTENSEN, CONST. ENG.
(Full Name and Title)

Signature: John Christensen Date: 10/24/97

P.E. Number & State: 165651 UT.

INSPECTION AND CERTIFIED REPORT ON EXCESS SPOIL PILE OR REFUSE PILE		Page 1 of	
Permit Number	ACT/015/017, ACT/015/019	Report Date	10/09/97
Mine Name	Cottonwood/Wilberg/Des Bee Dove/Trail Mountain		
Company Name	Energy West Mining		
Excess Spoil Pile or Refuse Pile Identification	File Name	Cottonwood Waste Rock Site	
	File Number		
	MSHA ID Number	1211-UT-09-01944-01	
Inspection Date	9/15/97		
Inspected By	John Christensen		
Reason for Inspection (Annual, Quarterly or Other Periodic Inspection, Critical Installation, or Completion of Construction)		1997 Third Quarter Inspection	
		Attachments to Report? <input type="checkbox"/> No <input type="checkbox"/> Yes	
Field Evaluation			
<p>1. Foundation preparation, including the removal of all organic material and topsoil.</p> <p>Foundation was prepared according to the approved plan.</p>			
<p>2. Placement of underdrains and protective filter systems.</p> <p>Not Applicable.</p>			
<p>3. Installation of final surface drainage systems.</p> <p>The west inlet ditch riprap was repaired during the 3rd quarter.</p>			

4. Placement and compaction of fill materials.

The refuse piles are leveled in lifts with trash and extraneous material sorted according to the permitted plan. The active lift is approximately 20% capacity. The site was leveled during the 2nd quarter. Some of the lump material that contain good quality coal was hauled back to the mine tipple.

5. Final grading and revegetation of fill.

The outslopes of each containment/lift berm have had final grading and vegetation completed.

6. Appearances of instability, structural weakness, and other hazardous conditions.

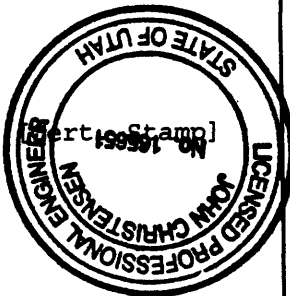
There is evidence of a couple of settlement fractures on the top of the present lift's berm. These are located on the southeast end and will be monitored more closely in the future. There has been no change in these fractures during the 3rd quarter.

7. Other Comments. Describe any changes in the geometry of the Excess Spoil/Refuse Pile structure, instrumentation, average and maximum lifts of materials placed in the pile, elevations of active benches, total and remaining storage capacity of the structure, evidence of fires in the pile and abatement of such fires, volumes of materials placed in the structure during the year, and any other aspect of the structure affecting its stability or function which has occurred during the reporting period.

The total storage capacity of the site is 784,000 cubic yards. The elevation of the current lift varies with the required drainage slope. The surveyed elevation at the center of the active lift is 6798 ft. The final design elevation will be 6850 ft. The site is approximately 35% capacity. The estimated volume hauled to the site in 1977 as of June 1, is 14,386 cubic yards.

Certification
Statement

I hereby certify that; I am experienced in the construction of earth and rock fills; I am qualified and authorized in the State of Utah to inspect and certify the condition and appearance of earth and rock fills in accordance with the certified and approved designs for this structure; that the fill structure has been maintained in accordance with approved design and meet or exceed the minimum design requirements under all applicable federal, state and local regulations; and, that inspections and inspection reports are made by myself and include any appearances of instability, structural weakness or other hazardous conditions of the structure affecting stability.



By: JOHN CHRISTENSEN CONST. ENG.

(Full Name and Title)

Signature: John Christensen

Date: 10/24/97

P.E. Number & State: 165651 Ut

INSPECTION AND CERTIFIED REPORT ON EXCESS SPOIL PILE OR REFUSE PILE		Page 1 of	
Permit Number	ACT/015/017/ACT/015/019	Report Date	January 13, 1998
Mine Name	Cottonwood/Wilberg/Des Bee Dove/Trail Mountain		
Company Name	Energy West Mining Company		
Excess Spoil Pile or Refuse Pile Identification	File Name	Cottonwood Waste Rock Site	
	File Number		
	MSHA ID Number	1211-UT-09-01944-01	
Inspection Date	12/29/97		
Inspected By	John Christensen		
Reason for Inspection (Annual, Quarterly or Other Periodic Inspection, Critical Installation, or Completion of Construction)		1997 Fourth Quarter Inspection	
		Attachments to Report? <input checked="" type="checkbox"/> No <input type="checkbox"/> Yes	
Field Evaluation			
<p>1. Foundation preparation, including the removal of all organic material and topsoil.</p> <p>Foundation was prepared according to the approved plan.</p>			
<p>2. Placement of underdrains and protective filter systems.</p> <p>Not applicable.</p>			
<p>3. Installation of final surface drainage systems.</p> <p>The out slopes of the containment berms are at their final configuration and have been revegetated. The inlet ditch to the pond has been lined with rip rap and is extended as the pile changes elevation.</p>			

4. Placement and compaction of fill materials.

The refuse piles are leveled in lifts with trash and extraneous material sorted according to the permitted plan. The active lift is approximately 50% capacity. The containment area in the North end of the site was full from the 4th quarter cleaning of the Cottonwood, Trail Mountain, and Des-Bee-Dove ponds. Areas of the site where the Des-Bee-Dove sediment had been dumped were dozed into piles to make room for more pond cleanings and the regular refuse hauls. These piles will be leveled after the Des-Bee-Dove pond cleaning is complete.

5. Final grading and revegetation of fill.

The outslopes of each containment/lift berm have had final grading and vegetation completed.

6. Appearances of instability, structural weakness, and other hazardous conditions.

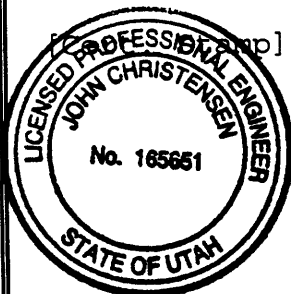
The settlement fractures on top of the South East portion of the present lift's berm were inspected. There has been no change in these fractures during the 4th quarter.

7. Other Comments. Describe any changes in the geometry of the Excess Spoil/Refuse Pile structure, instrumentation, average and maximum lifts of materials placed in the pile, elevations of active benches, total and remaining storage capacity of the structure, evidence of fires in the pile and abatement of such fires, volumes of materials placed in the structure during the year, and any other aspect of the structure affecting its stability or function which has occurred during the reporting period.

The total storage capacity of the site is 784,000 cubic yards. The elevation of the current lift varies with the required drainage slope. The surveyed elevation at the center of the active lift is 6798 ft. The final design elevation will be 6850 ft. The site is approximately 35% capacity. The estimated volume hauled to the site in 1997 was 16,808 cubic yards. This excludes sediment from pond cleanings.

Sediment from the cleaning of Cottonwood, Trail Mountain and Des-Bee-Dove mine site sediment ponds has been transported to the waste rock site during the fourth quarter 1997. Transporting sediment from the Des-Bee-Dove pond will continue into January of 1998.

**Certification
Statement**



I hereby certify that; I am experienced in the construction of earth and rock fills; I am qualified and authorized in the State of Utah to inspect and certify the condition and appearance of earth and rock fills in accordance with the certified and approved designs for this structure; that the fill structure has been maintained in accordance with approved design and meet or exceed the minimum design requirements under all applicable federal, state and local regulations; and, that inspections and inspection reports are made by myself and include any appearances of instability, structural weakness or other hazardous conditions of the structure affecting stability.

By: John Christensen, Construction Engineer
(Full Name and Title)

Signature: John Christensen Date: 1/15/98

P.E. Number & State: 165651, Utah

INSPECTION AND CERTIFIED REPORT ON EXCESS SPOIL PILE OR REFUSE PILE		Page 1 of	
Permit Number	ACT/015/0017 ACT/015/019	Report Date	January 13, 1998
Mine Name	Cottonwood/Wilberg/Des Bee Dove		
Company Name	Energy West Mining Company		
Excess Spoil Pile or Refuse Pile Identification	File Name	Old Waste Rock Site	
	File Number		
	MSHA ID Number	42-01944 & 42-00988	
Inspection Date	12/29/97		
Inspected By	John Christensen and Richard Jensen		
Reason for Inspection (Annual, Quarterly or Other Periodic Inspection, Critical Installation, or Completion of Construction)		1997 Fourth Quarter Inspection	
		Attachments to Report? XX <input type="checkbox"/> No <input type="checkbox"/> Yes	
Field Evaluation			
<p>1. Foundation preparation, including the removal of all organic material and topsoil.</p> <p>Constructed according to plan.</p>			
<p>2. Placement of underdrains and protective filter systems.</p> <p>Not applicable</p>			
<p>3. Installation of final surface drainage systems.</p> <p>All surfaces are at their final configuration and drainage established.</p>			

4. Placement and compaction of fill materials.

This site is complete and at capacity.

5. Final grading and revegetation of fill.

Site is complete and vegetation has been established.

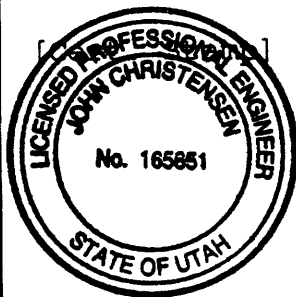
6. Appearances of instability, structural weakness, and other hazardous conditions.

None observed.

7. Other Comments. Describe any changes in the geometry of the Excess Spoil/Refuse Pile structure, instrumentation, average and maximum lifts of materials placed in the pile, elevations of active benches, total and remaining storage capacity of the structure, evidence of fires in the pile and abatement of such fires, volumes of materials placed in the structure during the year, and any other aspect of the structure affecting its stability or function which has occurred during the reporting period.

No changes in the site have occurred since the last inspection.

Certification
Statement



I hereby certify that; I am experienced in the construction of earth and rock fills; I am qualified and authorized in the State of Utah to inspect and certify the condition and appearance of earth and rock fills in accordance with the certified and approved designs for this structure; that the fill structure has been maintained in accordance with approved design and meet or exceed the minimum design requirements under all applicable federal, state and local regulations; and, that inspections and inspection reports are made by myself and include any appearances of instability, structural weakness or other hazardous conditions of the structure affecting stability.

By: John Christensen, Construction Engineer

(Full Name and Title)

Signature: *John Christensen*

Date: 1/15/98

P.E. Number & State: 165651, Utah

***DEER CREEK MINE SEDIMENT POND
REPORT***

IMPOUNDMENT INSPECTION AND CERTIFIED REPORT		Page 1 of	
Permit Number	ACT/015/018	Report Date	3/21/97
Mine Name	Deer Creek Mine		
Company Name	Energy West Mining Company		
Impoundment Identification	Impoundment Name	Mine Site Pond:	Waste Rock Pond:
	Impoundment Number		
	UPDES Permit Number	UT-0023604-001	
	MSHA ID Number	N/A	N/A
IMPOUNDMENT INSPECTION			
Inspection Date	Mine Site - 3/12/97		Waste Rock Pond - 3/6/97
Inspected By	Richard Jensen		
Reason for Inspection (Annual, Quarterly or Other Periodic Inspection, Critical Installation, or Completion of Construction)		1st Quarter 1997 Inspection	
1. Describe any appearance of any instability, structural weakness, or any other hazardous condition.			
	<u>Mine Site Pond</u>	<u>Waste Rock Pond</u>	
Conditions, Comments Etc.	No hazards observed.	No hazards observed.	
Required for an impoundment which functions as a SEDIMENTATION POND.	2. Sediment storage capacity, including elevation of 60% and 100% sediment storage volumes, and, estimated average elevation of existing sediment.		
		<u>Mine Site Pond</u>	<u>Waste Rock Pond</u>
	60% Design Storage Capacity	1.87 A.F. at 7213.1 ft.	.59 A.F. at 6312.7 ft.
	100% Sediment Capacity	3.12 A.F. at 7216.0 ft.	.98 A.F. at 6313.45 ft.
3. Principle and emergency spillway elevations.			

	<u>Mine Site Pond</u>	<u>Waste Rock Pond</u>
Principle Spillway		
Elevation (F.A.S.L.):	7218.64	6318.0
Emergency Sillway		
Elevation: (F.A.S.L.):	7232.03	6318.0

4. **Field Information.** Provide current water elevation, whether pond is discharging, type and number of samples taken, monitoring/instrumentation information, inlet/outlet conditions, or other related activities associated with the pond including but not limited to sediment cleanout, pond decanting, embankment erosion/repairs, monitoring information, vegetation on outslopes of embankments, etc.

	<u>Mine Site Pond</u>	<u>Waste Rock Pond</u>
Water Elevation	7225.78 ft. (pond frozen)	6310.5 ft.
Discharging	No	Never
Inlet, Outlet, Spillway Conditions	Good	Good
Outslope conditions	No change	No change

*See "Hydrologic Monitoring Data" report submitted quarterly to DOGM for monitoring information.

5. **Field Evaluation.** Describe any changes in the geometry of the impounding structure, average and maximum depths and elevations of impounded water, estimated sediment or slurry volume and remaining storage capacity, estimated volume of water impounded, and any other aspect of the impounding structure affecting its stability or function which has occurred during the reporting period.

	<u>Mine Site Pond Pond</u>	<u>Waste Rock Pond</u>
Sediment Volume	1.34 A.F.	None
Remaining Sediment Storage Capacity	0.53 A.F.	0.59 A.F.
Changes, Comments, etc.	No changes from previous inspection. Sediment box is at 60% capacity.	No change from previous inspection.

Qualification Statement

I hereby certify that; I am experienced in the construction of impoundments; I am qualified and authorized under the direction of a Registered Professional Engineer to inspect the condition and appearance of impoundments in accordance with the certified and approved designs for this structure; that the impoundment has been maintained in accordance with approved design and meet or exceed the minimum design requirements under all applicable federal, state and local regulations; and, that inspections and inspection reports are made by myself and include any appearances of instability, structural weakness or other hazardous conditions of the structure affecting stability.

Signature: Richard JensenDate: 3-25-97Signature: John ChristensenDate: 3-21-97**CERTIFIED REPORT**

IMPOUNDMENT EVALUATION (If NO, explain under Comments)	YES	NO
1. Is impoundment designed and constructed in accordance with the approved plan?	X	
2. Is impoundment free of instability, structural weakness, or any other hazardous condition?	X	
3. Has the impoundment met all applicable performance standards and effluent limitations from the previous date of inspection?	X	

IMPOUNDMENT INSPECTION AND CERTIFIED REPORT		Page 1 of																
Permit Number	ACT/015/018	Report Date	6/26/97															
Mine Name	Deer Creek Mine																	
Company Name	Energy West Mining																	
Impoundment Identification	Impoundment Name	Mine Site Pond:	Waste Rock Pond:															
	Impoundment Number																	
	UPDES Permit Number	UT-0023604-001																
	MSHA ID Number	N/A	N/A															
IMPOUNDMENT INSPECTION																		
Inspection Date	Mine Site: 5/30/97	Waste Rock Pond:	6/12/97															
Inspected By	Richard Jensen and Richard Northrup																	
Reason for Inspection (Annual, Quarterly or Other Periodic Inspection, Critical Installation, or Completion of Construction)		2nd Quarter 1997 Inspection																
<p>1. Describe any appearance of any instability, structural weakness, or any other hazardous condition.</p> <table border="0"> <thead> <tr> <th></th> <th><u>Mine Site Pond</u></th> <th><u>Waste Rock Pond</u></th> </tr> </thead> <tbody> <tr> <td>Conditions, Comments Etc.</td> <td>No hazards observed.</td> <td>No hazards observed.</td> </tr> </tbody> </table>					<u>Mine Site Pond</u>	<u>Waste Rock Pond</u>	Conditions, Comments Etc.	No hazards observed.	No hazards observed.									
	<u>Mine Site Pond</u>	<u>Waste Rock Pond</u>																
Conditions, Comments Etc.	No hazards observed.	No hazards observed.																
Required for an impoundment which functions as a SEDIMENTATION POND.	<p>2. Sediment storage capacity, including elevation of 60% and 100% sediment storage volumes, and, estimated average elevation of existing sediment.</p> <table border="0"> <thead> <tr> <th></th> <th><u>Mine Site Pond:</u></th> <th><u>Waste Rock Pond:</u></th> </tr> </thead> <tbody> <tr> <td>60% Design</td> <td></td> <td></td> </tr> <tr> <td>Storage Capacity</td> <td>1.87 A.F. at 7213.1 ft.</td> <td>.59 A.F. at 6312.7 ft.</td> </tr> <tr> <td>100% Sediment</td> <td></td> <td></td> </tr> <tr> <td>Capacity</td> <td>3.12 A.F. at 7216.0 ft.</td> <td>.98 A.F. at 6313.45 ft.</td> </tr> </tbody> </table>				<u>Mine Site Pond:</u>	<u>Waste Rock Pond:</u>	60% Design			Storage Capacity	1.87 A.F. at 7213.1 ft.	.59 A.F. at 6312.7 ft.	100% Sediment			Capacity	3.12 A.F. at 7216.0 ft.	.98 A.F. at 6313.45 ft.
		<u>Mine Site Pond:</u>	<u>Waste Rock Pond:</u>															
	60% Design																	
	Storage Capacity	1.87 A.F. at 7213.1 ft.	.59 A.F. at 6312.7 ft.															
100% Sediment																		
Capacity	3.12 A.F. at 7216.0 ft.	.98 A.F. at 6313.45 ft.																
<p>3. Principle and emergency spillway elevations.</p>																		

	<u>Mine Site Pond</u>	<u>Waste Rock Pond</u>
Principle Spillway Elevation (F.A.S.L.):	7218.64	6318.0
Emergency Spillway Elevation	7232.03	6318.0

4. **Field Information.** Provide current water elevation, whether pond is discharging, type and number of samples taken, monitoring/instrumentation information, inlet/outlet conditions, or other related activities associated with the pond including but not limited to sediment cleanout, pond decanting, embankment erosion/repairs, monitoring information, vegetation on outslopes of embankments, etc.

	<u>Mine Site Pond</u>	<u>Waste Rock Pond</u>
Water Elevation	7221.86	6310.3 ft.
Discharging	No	Never
Inlet, Outlet, Spillway Conditions	Good	Good
Outslope Conditions	No Change	No Change

*See "Hydrologic Monitoring Data" report submitted quarterly to DOGM for monitoring information.

5. **Field Evaluation.** Describe any changes in the geometry of the impounding structure, average and maximum depths and elevations of impounded water, estimated sediment or slurry volume and remaining storage capacity, estimated volume of water impounded, and any other aspect of the impounding structure affecting its stability or function which has occurred during the reporting period.

	<u>Mine Site Pond</u>	<u>Waste Rock Pond</u>
Sediment Volume	2.00 A.F.	None
Remaining Sediment Storage Capacity	1.12 A.F.	0.59 A.F.
Changes, Comments, etc.	No changes from previous inspection. Sediment box was cleaned at the beginning of the 2nd quarter.	No change from previous inspection.

Qualification Statement

I hereby certify that; I am experienced in the construction of impoundments; I am qualified and authorized under the direction of a Registered Professional Engineer to inspect the condition and appearance of impoundments in accordance with the certified and approved designs for this structure; that the impoundment has been maintained in accordance with approved design and meet or exceed the minimum design requirements under all applicable federal, state and local regulations; and, that inspections and inspection reports are made by myself and include any appearances of instability, structural weakness or other hazardous conditions of the structure affecting stability.

Signature: John UntertanSignature: Richard JensenDate: 6/30/97Date: 6-30-97**CERTIFIED REPORT****IMPOUNDMENT EVALUATION** (If NO, explain under Comments)

	YES	NO
1. Is impoundment designed and constructed in accordance with the approved plan?	X	
2. Is impoundment free of instability, structural weakness, or any other hazardous condition?	X	
3. Has the impoundment met all applicable performance standards and effluent limitations from the previous date of inspection?	X	

COMMENTS AND OTHER INFORMATION

IMPOUNDMENT INSPECTION AND CERTIFIED REPORT		Page 1 of										
Permit Number	ACT/015/018	Report Date	October 10, 1997									
Mine Name	Deer Creek Mine											
Company Name	Energy West Mining											
Impoundment Identification	Impoundment Name	Mine Site Pond:	Waste Rock Pond:									
	Impoundment Number											
	UPDES Permit Number	UT-0023604-001										
	MSHA ID Number	N/A	N/A									
IMPOUNDMENT INSPECTION												
Inspection Date	Mine Site: 9/16/97	Waste Rock Pond: 9/16/97										
Inspected By	Richard Jensen and Chris Barbee											
Reason for Inspection (Annual, Quarterly or Other Periodic Inspection, Critical Installation, or Completion of Construction)		3rd Quarter 1997 Inspection										
<p>1. Describe any appearance of any instability, structural weakness, or any other hazardous condition.</p> <table border="0"> <thead> <tr> <th></th> <th><u>Mine Site Pond</u></th> <th><u>Waste Rock Pond</u></th> </tr> </thead> <tbody> <tr> <td>Conditions, Comments Etc.</td> <td>No instability or weaknesses observed.</td> <td>No instability or weaknesses observed.</td> </tr> </tbody> </table>					<u>Mine Site Pond</u>	<u>Waste Rock Pond</u>	Conditions, Comments Etc.	No instability or weaknesses observed.	No instability or weaknesses observed.			
	<u>Mine Site Pond</u>	<u>Waste Rock Pond</u>										
Conditions, Comments Etc.	No instability or weaknesses observed.	No instability or weaknesses observed.										
Required for an impoundment which functions as a SEDIMENTATION POND.	<p>2. Sediment storage capacity, including elevation of 60% and 100% sediment storage volumes, and, estimated average elevation of existing sediment.</p> <table border="0"> <thead> <tr> <th></th> <th><u>Mine Site Pond:</u></th> <th><u>Waste Rock Pond:</u></th> </tr> </thead> <tbody> <tr> <td>60% Design Storage Capacity</td> <td>1.87 A.F. at 7213.1 ft.</td> <td>.59 A.F. at 6312.7 ft.</td> </tr> <tr> <td>100% Sediment Capacity</td> <td>3.12 A.F. at 7216.0 ft.</td> <td>.98 A.F. at 6313.45 ft.</td> </tr> </tbody> </table>				<u>Mine Site Pond:</u>	<u>Waste Rock Pond:</u>	60% Design Storage Capacity	1.87 A.F. at 7213.1 ft.	.59 A.F. at 6312.7 ft.	100% Sediment Capacity	3.12 A.F. at 7216.0 ft.	.98 A.F. at 6313.45 ft.
	<u>Mine Site Pond:</u>	<u>Waste Rock Pond:</u>										
60% Design Storage Capacity	1.87 A.F. at 7213.1 ft.	.59 A.F. at 6312.7 ft.										
100% Sediment Capacity	3.12 A.F. at 7216.0 ft.	.98 A.F. at 6313.45 ft.										
3. Principle and emergency spillway elevations.												

	<u>Mine Site Pond</u>	<u>Waste Rock Pond</u>
Principle Spillway Elevation (F.A.S.L.):	7218.64	6318.0
Emergency Spillway Elevation	7232.03	6318.0

4. **Field Information.** Provide current water elevation, whether pond is discharging, type and number of samples taken, monitoring/instrumentation information, inlet/outlet conditions, or other related activities associated with the pond including but not limited to sediment cleanout, pond decanting, embankment erosion/repairs, monitoring information, vegetation on outslopes of embankments, etc.

	<u>Mine Site Pond</u>	<u>Waste Rock Pond</u>
Water Elevation	7219.60	6310.4 ft.
Discharging	Yes	Never
Inlet, Outlet, Spillway Conditions	Good	Good
Outslope Conditions	No Change	No Change

*See "Hydrologic Monitoring Data" report submitted quarterly to DOGM for monitoring information.

5. **Field Evaluation.** Describe any changes in the geometry of the impounding structure, average and maximum depths and elevations of impounded water, estimated sediment or slurry volume and remaining storage capacity, estimated volume of water impounded, and any other aspect of the impounding structure affecting its stability or function which has occurred during the reporting period.

	<u>Mine Site Pond</u>	<u>Waste Rock Pond</u>
Sediment Volume	2.00 A.F.	None
Remaining Sediment Storage Capacity	1.12 A.F.	0.98 A.F.
Water Impounded	0.8 A.F.	Insignificant amount.
Changes, Comments, etc.	Preparations have been made to clean the mine site pond and the sediment box. Cleaning will take place early in the 4th Quarter.	No changes from previous inspection.

**Qualification
Statement**

I hereby certify that; I am experienced in the construction of impoundments; I am qualified and authorized under the direction of a Registered Professional Engineer to inspect the condition and appearance of impoundments in accordance with the certified and approved designs for this structure; that the impoundment has been maintained in accordance with approved design and meet or exceed the minimum design requirements under all applicable federal, state and local regulations; and, that inspections and inspection reports are made by myself and include any appearances of instability, structural weakness or other hazardous conditions of the structure affecting stability.

Signature: *Richard Jensen*Signature: *Richard Jensen*Date: 10/27/97Date: 10-27-97**CERTIFIED REPORT**

IMPOUNDMENT EVALUATION (If NO, explain under Comments)	YES	NO
1. Is impoundment designed and constructed in accordance with the approved plan?	X	
2. Is impoundment free of instability, structural weakness, or any other hazardous condition?	X	
3. Has the impoundment met all applicable performance standards and effluent limitations from the previous date of inspection?	X	
COMMENTS AND OTHER INFORMATION		

IMPOUNDMENT INSPECTION AND CERTIFIED REPORT		Page 1 of										
Permit Number	ACT/015/018	Report Date	January 9, 1998									
Mine Name	Deer Creek Mine											
Company Name	Energy West Mining											
Impoundment Identification	Impoundment Name	Mine Site Pond:	Waste Rock Pond:									
	Impoundment Number											
	UPDES Permit Number	UT-0023604-001										
	MSHA ID Number	N/A	N/A									
IMPOUNDMENT INSPECTION												
Inspection Date	Mine Site: 12-16-97 Waste Rock Pond: 12-16-97											
Inspected By	Richard Jensen and Chris Barbee											
Reason for Inspection (Annual, Quarterly or Other Periodic Inspection, Critical Installation, or Completion of Construction)		4th Quarter 1997 Inspection										
<p>1. Describe any appearance of any instability, structural weakness, or any other hazardous condition.</p> <table border="0"> <thead> <tr> <th></th> <th>Mine Site Pond</th> <th>Waste Rock Pond</th> </tr> </thead> <tbody> <tr> <td>Conditions, Comments Etc.</td> <td>No instability or weaknesses observed</td> <td>No instability or weaknesses observed</td> </tr> </tbody> </table>					Mine Site Pond	Waste Rock Pond	Conditions, Comments Etc.	No instability or weaknesses observed	No instability or weaknesses observed			
	Mine Site Pond	Waste Rock Pond										
Conditions, Comments Etc.	No instability or weaknesses observed	No instability or weaknesses observed										
Required for an impoundment which functions as a SEDIMENTATION POND.	<p>2. Sediment storage capacity, including elevation of 60% and 100% sediment storage volumes, and, estimated average elevation of existing sediment.</p> <table border="0"> <thead> <tr> <th></th> <th>Mine Site Pond:</th> <th>Waste Rock Pond:</th> </tr> </thead> <tbody> <tr> <td>60% Design Storage Capacity</td> <td>1.87 A.F. at 7213.1 ft.</td> <td>.59 A.F. at 6312.7 ft.</td> </tr> <tr> <td>100% Sediment Capacity</td> <td>3.12 A.F. at 7216.0 ft.</td> <td>.98 A.F. at 6313.45 ft.</td> </tr> </tbody> </table>				Mine Site Pond:	Waste Rock Pond:	60% Design Storage Capacity	1.87 A.F. at 7213.1 ft.	.59 A.F. at 6312.7 ft.	100% Sediment Capacity	3.12 A.F. at 7216.0 ft.	.98 A.F. at 6313.45 ft.
		Mine Site Pond:	Waste Rock Pond:									
60% Design Storage Capacity	1.87 A.F. at 7213.1 ft.	.59 A.F. at 6312.7 ft.										
100% Sediment Capacity	3.12 A.F. at 7216.0 ft.	.98 A.F. at 6313.45 ft.										
<p>3. Principle and emergency spillway elevations.</p>												

Mine Site Pond

Waste Rock Pond

Principle Spillway

Elevation (F.A.S.L.): 7218.64

6318.0

Emergency Spillway

Elevation 7232.03

6318.0

4. **Field Information.** Provide current water elevation, whether pond is discharging, type and number of samples taken, monitoring/instrumentation information, inlet/outlet conditions, or other related activities associated with the pond including but not limited to sediment cleanout, pond decanting, embankment erosion/repairs, monitoring information, vegetation on outslopes of embankments, etc.

Mine Site Pond

Waste Rock Pond

Water Elevation

7215.95

6310.4 ft.

Discharging

No

Never

Inlet, Outlet, Spillway
Conditions

Good

Good

Outslope Conditions

No Change

No Change

*See "Hydrologic Monitoring Data" report submitted quarterly to DOGM for monitoring Information

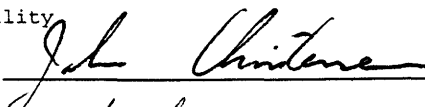
5. **Field Evaluation.** Describe any changes in the geometry of the impounding structure, average and maximum depths and elevations of impounded water, estimated sediment or slurry volume and remaining storage capacity, estimated volume of water impounded, and any other aspect of the impounding structure affecting its stability or function which has occurred during the reporting period.

	Mine Site Pond	Waste Rock Pond
Sediment Volume	0.00	None
Remaining Sediment Storage Capacity	3.12	0.98 A.F.
Water Impounded	3.10	Approx. one foot deep in the Southern end of the pond.
Changes, Comments, Etc.	The pond and sediment box were cleaned the first 3 weeks of Nov. Pond was frozen when inspected.	Some water was trucked to the pond during Deer Creek Mine site pond cleaning. Pond was frozen at the time of inspection.

Qualification Statement

I hereby certify that; I am experienced in the construction of impoundments; I am qualified and authorized under the direction of a Registered Professional Engineer to inspect the condition and appearance of impoundments in accordance with the certified and approved designs for this structure; that the impoundment has been maintained in accordance with approved design and meet or exceed the minimum design requirements under all applicable federal, state and local regulations; and, that inspections and inspection reports are made by myself and include any appearances of instability, structural weakness or other hazardous conditions of the structure affecting stability.

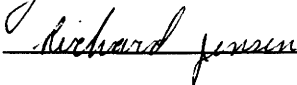
Signature:



Date:

1/14/98

Signature:



Date:

1-14-98

CERTIFIED REPORT

IMPOUNDMENT EVALUATION (If NO, explain under Comments)	YES	NO
1. Is impoundment designed and constructed in accordance with the approved plan?	X	
2. Is impoundment free of instability, structural weakness, or any other hazardous condition?	X	
3. Has the impoundment met all applicable performance standards and effluent limitations from the previous date of inspection?	X	
COMMENTS AND OTHER INFORMATION		

***COTTONWOOD MINE SEDIMENT POND
REPORT***

IMPOUNDMENT INSPECTION AND CERTIFIED REPORT		Page 1 of													
Permit Number	ACT/015/019	Report Date	3/21/97												
Mine Name	Cottonwood/Wilberg														
Company Name	PacifiCorp														
Impoundment Name...	North Pond	South Pond	Waste Rock Pond												
Impoundment Number.															
UPDES Permit Number		UT 0022896-003A	UT 0022896-005												
MSHA ID NUMBER.....	1211-UT-09-01944-01	1211-UT-09-01944-02													
IMPOUNDMENT INSPECTION															
Inspection Date	3/11/97														
Inspected By	Richard Jensen														
Reason for Inspection (Annual, Quarterly or Other Periodic Inspection, Critical Installation, or Completion of Construction)	1st Quarter Inspection 1997														
<p>1. Describe any appearance of any instability, structural weakness, or any other hazardous condition.</p> <p>North Pond: None Found</p> <p>South Pond: None Found</p> <p>Waste Rock Site Pond: None Found</p>															
Required for an impoundment which functions as a SEDIMENTATION POND.	<p>2. Sediment storage capacity, including elevation of 60% and 100% sediment storage volumes, and, estimated average elevation of existing sediment.</p> <table border="1"> <thead> <tr> <th></th> <th>North Pond</th> <th>South Pond</th> <th>Waste Rock Pond</th> </tr> </thead> <tbody> <tr> <td>60% Design Storage Capacity</td> <td>.34 A.F. at 7351.0 ft.</td> <td>.19 A.F. at 7322.3 ft.</td> <td>1.45 A.F. at 6761.5 ft.</td> </tr> <tr> <td>100% Sediment Capacity</td> <td>.56 A.F. at 7354.83 ft.</td> <td>.32 A.F. at 7325.33 ft.</td> <td>2.42 A.F. at 6765.3 ft.</td> </tr> </tbody> </table>				North Pond	South Pond	Waste Rock Pond	60% Design Storage Capacity	.34 A.F. at 7351.0 ft.	.19 A.F. at 7322.3 ft.	1.45 A.F. at 6761.5 ft.	100% Sediment Capacity	.56 A.F. at 7354.83 ft.	.32 A.F. at 7325.33 ft.	2.42 A.F. at 6765.3 ft.
	North Pond	South Pond	Waste Rock Pond												
60% Design Storage Capacity	.34 A.F. at 7351.0 ft.	.19 A.F. at 7322.3 ft.	1.45 A.F. at 6761.5 ft.												
100% Sediment Capacity	.56 A.F. at 7354.83 ft.	.32 A.F. at 7325.33 ft.	2.42 A.F. at 6765.3 ft.												
3. Principle and emergency spillway elevations.															

	<u>North Pond</u>	<u>South Pond</u>	<u>Waste Rock Pond</u>
Principal Spillway Elevation	7354.83	7325.33	6766.3
Emergency Spillway Elevation	7363.33	7334.2	6770.0

4. **Field Information.** Provide current water elevation, whether pond is discharging, type and number of samples taken, monitoring/instrumentation information, inlet/outlet conditions, or other related activities associated with the pond including but not limited to sediment cleanout, pond decanting, embankment erosion/repairs, monitoring information, vegetation on outslopes of embankments, etc.

	<u>North Pond</u>	<u>South Pond</u>	<u>Waste Rock Pond</u>
Water Elevation	7354.61 (pond frozen)	7329.52 (pond frozen)	6759.37 (pond frozen)
Discharging	Yes	Yes	No
Inlet/Outlet Condition	Good	Good	Good
Slope conditions	Good	Good	Good

*See "Hydrologic Monitoring Data" report submitted to DOGM quarterly for monitoring information.

5. **Field Evaluation.** Describe any changes in the geometry of the impounding structure, average and maximum depths and elevations of impounded water, estimated sediment or slurry volume and remaining storage capacity, estimated volume of water impounded, and any other aspect of the impounding structure affecting its stability or function which has occurred during the reporting period.

	<u>North Pond</u>	<u>South Pond</u>	<u>Waste Rock Pond</u>
Sediment Volume	0	.12 AF	0
Remaining Sediment Storage Capacity	.34 AF	.07 AF	1.45 AF
Water Impounded	.5 AF	.73 AF	.86 AF
Changes, Comments, etc.	None	None	None

**Qualification
Statement**

I hereby certify that; I am experienced in the construction of impoundments; I am qualified and authorized under the direction of a Registered Professional Engineer to inspect the condition and appearance of impoundments in accordance with the certified and approved designs for this structure; that the impoundment has been maintained in accordance with approved design and meet or exceed the minimum design requirements under all applicable federal, state and local regulations; and, that inspections and inspection reports are made by myself and include any appearances of instability, structural weakness or other hazardous conditions of the structure affecting stability.

Signature: _____

Signature: _____

Date: 3-25-97Date: 3/26/97**CERTIFIED REPORT**

IMPOUNDMENT EVALUATION (If NO, explain under Comments)	YES	NO
1. Is impoundment designed and constructed in accordance with the approved plan?	X	
2. Is impoundment free of instability, structural weakness, or any other hazardous condition?	X	
3. Has the impoundment met all applicable performance standards and effluent limitations from the previous date of inspection?	X	

IMPOUNDMENT INSPECTION AND CERTIFIED REPORT		Page 1 of	
Permit Number	ACT/015/019	Report Date	3/21/97
Mine Name	Cottonwood/Wilberg		
Company Name	PacifiCorp		
Impoundment Identification	Impoundment Name	COTTONWOOD CANYON NORTH BASIN SOUTH BASIN	
	Impoundment Number		
	UPDES Permit Number	UT-0022896-002A	
	MSHA ID Number		
IMPOUNDMENT INSPECTION			
Inspection Date	3/18/97		
Inspected By	R. Jensen/J. Christensen		
Reason for Inspection (Annual, Quarterly or Other Periodic Inspection, Critical Installation, or Completion of Construction)		1st Quarter 1997 Inspection	
<p>1. Describe any appearance of any instability, structural weakness, or any other hazardous condition.</p> <p>No unstable or structural weaknesses found.</p>			
Required for an impoundment which functions as a SEDIMENTATION POND.	2. Sediment storage capacity, including elevation of 60% and 100% sediment storage volumes, and, estimated average elevation of existing sediment.		
		<u>North Basin</u>	<u>South Basin</u>
	60% Design Storage Capacity	0.028 A.F.	0.069 A.F.
	100% Sediment Capacity	0.047 A.F.	0.115 A.F.
3. Principle and emergency spillway elevations.			

North BasinSouth Basin**Principle Spillway****Elevation (F.A.S.L.):** 7230.5

7223.6

Emergency Sillway**Elevation: (F.A.S.L.):** 7230.5

7223.6

- 4. Field Information.** Provide current water elevation, whether pond is discharging, type and number of samples taken, monitoring/instrumentation information, inlet/outlet conditions, or other related activities associated with the pond including but not limited to sediment cleanout, pond decanting, embankment erosion/repairs, monitoring information, vegetation on outslopes of embankments, etc.

North BasinSouth Basin**Water Elevation**

2" Deep

2" Deep

Discharging

No

No

**Inlet, Outlet
Condition**

Good

Good

Slope conditions

Good

Good

*See "Hydrologic Monitoring Data" report submitted quarterly to DOGM for monitoring information.

5. **Field Evaluation.** Describe any changes in the geometry of the impounding structure, average and maximum depths and elevations of impounded water, estimated sediment or slurry volume and remaining storage capacity, estimated volume of water impounded, and any other aspect of the impounding structure affecting its stability or function which has occurred during the reporting period.

	<u>North Basin</u>	<u>South Basin</u>
Sediment Volume	0 A.F.	0.050 A.F.
Remaining Sediment Storage Capacity	0.0 A.F.	0.019 A.F.
Changes, Comments, etc.	None	None

**Qualification
Statement**

I hereby certify that; I am experienced in the construction of impoundments; I am qualified and authorized under the direction of a Registered Professional Engineer to inspect the condition and appearance of impoundments in accordance with the certified and approved designs for this structure; that the impoundment has been maintained in accordance with approved design and meet or exceed the minimum design requirements under all applicable federal, state and local regulations; and, that inspections and inspection reports are made by myself and include any appearances of instability, structural weakness or other hazardous conditions of the structure affecting stability.

Signature: _____

Signature: _____

Date: 3/15/97Date: 3/26/97**CERTIFIED REPORT**

IMPOUNDMENT EVALUATION (If NO, explain under Comments)	YES	NO
1. Is impoundment designed and constructed in accordance with the approved plan?	X	
2. Is impoundment free of instability, structural weakness, or any other hazardous condition?	X	
3. Has the impoundment met all applicable performance standards and effluent limitations from the previous date of inspection?	X	

IMPOUNDMENT INSPECTION AND CERTIFIED REPORT		Page 1 of																					
Permit Number	ACT/015/019	Report Date	6/26/97																				
Mine Name	Cottonwood/Wilberg																						
Company Name	PacifiCorp																						
Impoundment Name...	North Pond	South Pond	Waste Rock Pond																				
Impoundment Number.																							
UPDES Permit Number		UT 0022896-003A	UT 0022896-005																				
MSHA ID NUMBER.....	1211-UT-09-01944-01	1211-UT-09-01944-02																					
IMPOUNDMENT INSPECTION																							
Inspection Date	May 29, 1997																						
Inspected By	Richard Jensen and Richard Northrup																						
Reason for Inspection (Annual, Quarterly or Other Periodic Inspection, Critical Installation, or Completion of Construction)	2nd Quarter Inspection 1997																						
<p>1. Describe any appearance of any instability, structural weakness, or any other hazardous condition.</p> <p>North Pond: None Found</p> <p>South Pond: None Found</p> <p>Waste Rock Site Pond: The west inlet rip rap will require repair work as a result of recent storm activities.</p>																							
Required for an impoundment which functions as a SEDIMENTATION POND.	<p>2. Sediment storage capacity, including elevation of 60% and 100% sediment storage volumes, and, estimated average elevation of existing sediment.</p> <table border="1"> <thead> <tr> <th></th> <th>North Pond</th> <th>South Pond</th> <th>Waste Rock Pond</th> </tr> </thead> <tbody> <tr> <td>60% Design</td> <td>.34 A.F.</td> <td>.19 A.F.</td> <td>1.45 A.F.</td> </tr> <tr> <td>Storage Capacity</td> <td>at 7351.0 ft.</td> <td>at 7322.3 ft.</td> <td>at 6761.5 ft.</td> </tr> <tr> <td>100% Sediment</td> <td>.56 A.F.</td> <td>.32 A.F.</td> <td>2.42 A.F.</td> </tr> <tr> <td>Capacity</td> <td>at 7354.83 ft.</td> <td>at 7325.33 ft.</td> <td>at 6765.3 ft.</td> </tr> </tbody> </table>				North Pond	South Pond	Waste Rock Pond	60% Design	.34 A.F.	.19 A.F.	1.45 A.F.	Storage Capacity	at 7351.0 ft.	at 7322.3 ft.	at 6761.5 ft.	100% Sediment	.56 A.F.	.32 A.F.	2.42 A.F.	Capacity	at 7354.83 ft.	at 7325.33 ft.	at 6765.3 ft.
	North Pond	South Pond	Waste Rock Pond																				
60% Design	.34 A.F.	.19 A.F.	1.45 A.F.																				
Storage Capacity	at 7351.0 ft.	at 7322.3 ft.	at 6761.5 ft.																				
100% Sediment	.56 A.F.	.32 A.F.	2.42 A.F.																				
Capacity	at 7354.83 ft.	at 7325.33 ft.	at 6765.3 ft.																				
3. Principle and emergency spillway elevations.																							

	<u>North Pond</u>	<u>South Pond</u>	<u>Waste Rock Pond</u>
Principal Spillway Elevation	7354.83	7325.33	6766.3
Emergency Spillway Elevation	7363.33	7334.2	6770.0

4. Field Information. Provide current water elevation, whether pond is discharging, type and number of samples taken, monitoring/instrumentation information, inlet/outlet conditions, or other related activities associated with the pond including but not limited to sediment cleanout, pond decanting, embankment erosion/repairs, monitoring information, vegetation on outslopes of embankments, etc.

	<u>North Pond</u>	<u>South Pond</u>	<u>Waste Rock Pond</u>
Water Elevation	7354.51	7329.27	6758.92
Discharging	Yes	Yes	No
Inlet/Outlet Condition	Good	Good	Good
Slope conditions	Good	Good	Good

*See "Hydrologic Monitoring Data" report submitted to DOGM quarterly for monitoring information.

5. **Field Evaluation.** Describe any changes in the geometry of the impounding structure, average and maximum depths and elevations of impounded water, estimated sediment or slurry volume and remaining storage capacity, estimated volume of water impounded, and any other aspect of the impounding structure affecting its stability or function which has occurred during the reporting period.

	<u>North Pond</u>	<u>South Pond</u>	<u>Waste Rock Pond</u>
Sediment Volume	0.33 AF	0.23 AF	0.08 AF
Remaining Sediment Storage Capacity	.23 AF	.09 AF	1.37 AF
.86			
Water Impounded	.13 AF	.47 AF	.78
Changes, Comments, etc.	None	None	None

**Qualification
Statement**

I hereby certify that; I am experienced in the construction of impoundments; I am qualified and authorized under the direction of a Registered Professional Engineer to inspect the condition and appearance of impoundments in accordance with the certified and approved designs for this structure; that the impoundment has been maintained in accordance with approved design and meet or exceed the minimum design requirements under all applicable federal, state and local regulations; and, that inspections and inspection reports are made by myself and include any appearances of instability, structural weakness or other hazardous conditions of the structure affecting stability.

Signature: *John A. Hunter*Date: 6/30/97Signature: *Richard Jensen*Date: 6-30-97**CERTIFIED REPORT****IMPOUNDMENT EVALUATION** (If NO, explain under Comments)

	YES	NO
1. Is impoundment designed and constructed in accordance with the approved plan?	X	
2. Is impoundment free of instability, structural weakness, or any other hazardous condition?	X	
3. Has the impoundment met all applicable performance standards and effluent limitations from the previous date of inspection?	X	

IMPOUNDMENT INSPECTION AND CERTIFIED REPORT		Page 1 of	
Permit Number	ACT/015/019	Report Date	June 26, 1997
Mine Name	Cottonwood/Wilberg		
Company Name	PacifiCorp		
Impoundment Identification	Impoundment Name	COTTONWOOD CANYON NORTH BASIN SOUTH BASIN	
	Impoundment Number		
	UPDES Permit Number	UT-0022896-002A	
	MSHA ID Number		
IMPOUNDMENT INSPECTION			
Inspection Date	May 29, 1997		
Inspected By	Richard Jensen		
Reason for Inspection (Annual, Quarterly or Other Periodic Inspection, Critical Installation, or Completion of Construction)		2nd Quarter 1997 Inspection	
<p>1. Describe any appearance of any instability, structural weakness, or any other hazardous condition.</p> <p>No unstable or structural weaknesses found.</p>			
Required for an impoundment which functions as a SEDIMENTATION POND.	2. Sediment storage capacity, including elevation of 60% and 100% sediment storage volumes, and, estimated average elevation of existing sediment.		
		<u>North Basin</u>	<u>South Basin</u>
	60% Design Storage Capacity	0.028 A.F.	0.069 A.F.
	100% Sediment Capacity	0.047 A.F.	0.115 A.F.
3. Principle and emergency spillway elevations.			

	<u>North Basin</u>	<u>South Basin</u>
Principle Spillway Elevation (F.A.S.L.):	7230.5	7223.6
Emergency Spillway Elevation	7230.5	7223.6

4. **Field Information.** Provide current water elevation, whether pond is discharging, type and number of samples taken, monitoring/instrumentation information, inlet/outlet conditions, or other related activities associated with the pond including but not limited to sediment cleanout, pond decanting, embankment erosion/repairs, monitoring information, vegetation on outslopes of embankments, etc.

	<u>North Basin</u>	<u>South Basin</u>
Water Elevation	Dry	Dry
Discharging	No	No
Inlet, Outlet Conditions	Good	Good
Outslope Conditions	Good	Good

*See "Hydrologic Monitoring Data" report submitted quarterly to DOGM for monitoring information.

5. **Field Evaluation.** Describe any changes in the geometry of the impounding structure, average and maximum depths and elevations of impounded water, estimated sediment or slurry volume and remaining storage capacity, estimated volume of water impounded, and any other aspect of the impounding structure affecting its stability or function which has occurred during the reporting period.

	<u>North Basin</u>	<u>South Basin</u>
Sediment Volume	0 A.F.	0.050 A.F.
Remaining Sediment Storage Capacity	.047 A.F.	.065 A.F.
Changes, Comments, etc.	None	None

**Qualification
Statement**

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Signature: John J. HunterSignature: Richard JensenDate: 6/30/97Date: 6-30-97**CERTIFIED REPORT**

IMPOUNDMENT EVALUATION (If NO, explain under Comments)	YES	NO
1. Is impoundment designed and constructed in accordance with the approved plan?	X	
2. Is impoundment free of instability, structural weakness, or any other hazardous condition?	X	
3. Has the impoundment met all applicable performance standards and effluent limitations from the previous date of inspection?	X	
COMMENTS AND OTHER INFORMATION		

IMPOUNDMENT INSPECTION AND CERTIFIED REPORT		Page 1 of													
Permit Number	ACT/015/019	Report Date	10/9/97												
Mine Name	Cottonwood/Wilberg														
Company Name	PacifiCorp														
Impoundment Name...	North Pond	South Pond	Waste Rock Pond												
Impoundment Number.															
UPDES Permit Number		UT 0022896-003A	UT 0022896-005												
MSHA ID NUMBER.....	1211-UT-09-01944-01	1211-UT-09-01944-02													
IMPOUNDMENT INSPECTION															
Inspection Date	No. Pond: 9/11/97; South Pond: 9/16/97; Waste Rock Pond: 9/15/97														
Inspected By	Richard Jensen and Chris Barbee														
Reason for Inspection (Annual, Quarterly or Other Periodic Inspection, Critical Installation, or Completion of Construction)	3rd Quarter Inspection 1997														
<p>1. Describe any appearance of any instability, structural weakness, or any other hazardous condition.</p> <p>North Pond: No instabilities or weaknesses observed.</p> <p>South Pond: No instabilities or weaknesses observed.</p> <p>Waste Rock Site Pond: The west inlet rip rap has been repaired with larger rip rap. No instabilities observed.</p>															
Required for an impoundment which functions as a SEDIMENTATION POND.	<p>2. Sediment storage capacity, including elevation of 60% and 100% sediment storage volumes, and, estimated average elevation of existing sediment.</p> <table border="1"> <thead> <tr> <th></th> <th>North Pond</th> <th>South Pond</th> <th>Waste Rock Pond</th> </tr> </thead> <tbody> <tr> <td>60% Design Storage Capacity</td> <td>.34 A.F. at 7351.0 ft.</td> <td>.19 A.F. at 7322.3 ft.</td> <td>1.45 A.F. at 6761.5 ft.</td> </tr> <tr> <td>100% Sediment Capacity</td> <td>.56 A.F. at 7354.83 ft.</td> <td>.32 A.F. at 7325.33 ft.</td> <td>2.42 A.F. at 6765.3 ft.</td> </tr> </tbody> </table>				North Pond	South Pond	Waste Rock Pond	60% Design Storage Capacity	.34 A.F. at 7351.0 ft.	.19 A.F. at 7322.3 ft.	1.45 A.F. at 6761.5 ft.	100% Sediment Capacity	.56 A.F. at 7354.83 ft.	.32 A.F. at 7325.33 ft.	2.42 A.F. at 6765.3 ft.
	North Pond	South Pond	Waste Rock Pond												
60% Design Storage Capacity	.34 A.F. at 7351.0 ft.	.19 A.F. at 7322.3 ft.	1.45 A.F. at 6761.5 ft.												
100% Sediment Capacity	.56 A.F. at 7354.83 ft.	.32 A.F. at 7325.33 ft.	2.42 A.F. at 6765.3 ft.												
3. Principle and emergency spillway elevations.															

	<u>North Pond</u>	<u>South Pond</u>	<u>Waste Rock Pond</u>
Principal Spillway Elevation	7354.83	7325.33	6766.3
Emergency Spillway Elevation	7363.33	7334.2	6770.0

4. **Field Information.** Provide current water elevation, whether pond is discharging, type and number of samples taken, monitoring/instrumentation information, inlet/outlet conditions, or other related activities associated with the pond including but not limited to sediment cleanout, pond decanting, embankment erosion/repairs, monitoring information, vegetation on outslopes of embankments, etc.

	<u>North Pond</u>	<u>South Pond</u>	<u>Waste Rock Pond</u>
Water Elevation	Dry (9/11/97)	Dry (9/16/97)	6760.52
Discharging	No	No	No
Inlet/Outlet Condition	Good	Good	Good
Slope conditions	Good	Good	Good

*See "Hydrologic Monitoring Data" report submitted to DOGM quarterly for monitoring information.

5. **Field Evaluation.** Describe any changes in the geometry of the impounding structure, average and maximum depths and elevations of impounded water, estimated sediment or slurry volume and remaining storage capacity, estimated volume of water impounded, and any other aspect of the impounding structure affecting its stability or function which has occurred during the reporting period.

	<u>North Pond</u>	<u>South Pond</u>	<u>Waste Rock Pond</u>
Sediment Volume	0	0	0.36 A.F.
Remaining Sediment Storage Capacity	.56 AF	.32AF	1.98 AF
Water Impounded	None	None	0.64
Changes, Comments, etc.	Pond was cleaned Sept.08-12, 1997	Pond was cleaned September 15-19, 1997	None

**Qualification
Statement**

I hereby certify that; I am experienced in the construction of impoundments; I am qualified and authorized under the direction of a Registered Professional Engineer to inspect the condition and appearance of impoundments in accordance with the certified and approved designs for this structure; that the impoundment has been maintained in accordance with approved design and meet or exceed the minimum design requirements under all applicable federal, state and local regulations; and, that inspections and inspection reports are made by myself and include any appearances of instability, structural weakness or other hazardous conditions of the structure affecting stability.

Signature: John ChristDate: 10/27/97Signature: Richard JensenDate: 10-27-97**CERTIFIED REPORT**

IMPOUNDMENT EVALUATION (If NO, explain under Comments)	YES	NO
1. Is impoundment designed and constructed in accordance with the approved plan?	X	
2. Is impoundment free of instability, structural weakness, or any other hazardous condition?	X	
3. Has the impoundment met all applicable performance standards and effluent limitations from the previous date of inspection?	X	

IMPOUNDMENT INSPECTION AND CERTIFIED REPORT		Page 1 of	
Permit Number	ACT/015/019	Report Date	October 9, 1997
Mine Name	Cottonwood/Wilberg		
Company Name	PacifiCorp		
Impoundment Identification	Impoundment Name	COTTONWOOD CANYON NORTH BASIN SOUTH BASIN	
	Impoundment Number		
	UPDES Permit Number	UT-0022896-002A	
	MSHA ID Number		
IMPOUNDMENT INSPECTION			
Inspection Date	September 16, 1997		
Inspected By	Richard Jensen, Chris Barbee		
Reason for Inspection (Annual, Quarterly or Other Periodic Inspection, Critical Installation, or Completion of Construction)		3rd Quarter 1997 Inspection	
<p>1. Describe any appearance of any instability, structural weakness, or any other hazardous condition.</p> <p>No unstable or structural weaknesses found.</p>			
Required for an impoundment which functions as a SEDIMENTATION POND.	2. Sediment storage capacity, including elevation of 60% and 100% sediment storage volumes, and, estimated average elevation of existing sediment.		
		<u>North Basin</u>	<u>South Basin</u>
	60% Design Storage Capacity	0.028 A.F.	0.069 A.F.
	100% Sediment Capacity	0.047 A.F.	0.115 A.F.
3. Principle and emergency spillway elevations.			

	<u>North Basin</u>	<u>South Basin</u>
Principle Spillway Elevation (F.A.S.L.):	7230.5	7223.6
Emergency Spillway Elevation	7230.5	7223.6

4. **Field Information.** Provide current water elevation, whether pond is discharging, type and number of samples taken, monitoring/instrumentation information, inlet/outlet conditions, or other related activities associated with the pond including but not limited to sediment cleanout, pond decanting, embankment erosion/repairs, monitoring information, vegetation on outslopes of embankments, etc.

	<u>North Basin</u>	<u>South Basin</u>
Water Elevation	3 to 4 inches deep	1 to 2 inches deep
Discharging	No	No
Inlet, Outlet Conditions	Good	Good
Outslope Conditions	Good	Good

*See "Hydrologic Monitoring Data" report submitted quarterly to DOGM for monitoring information.

5. **Field Evaluation.** Describe any changes in the geometry of the impounding structure, average and maximum depths and elevations of impounded water, estimated sediment or slurry volume and remaining storage capacity, estimated volume of water impounded, and any other aspect of the impounding structure affecting its stability or function which has occurred during the reporting period.

	<u>North Basin</u>	<u>South Basin</u>
Sediment Volume	0 A.F.	0.050 A.F.
Remaining Sediment Storage Capacity	.047 A.F.	.065 A.F.
Changes, Comments, etc.	None	None

**Qualification
Statement**

I hereby certify that; I am experienced in the construction of impoundments; I am qualified and authorized under the direction of a Registered Professional Engineer to inspect the condition and appearance of impoundments in accordance with the certified and approved designs for this structure; that the impoundment has been maintained in accordance with approved design and meet or exceed the minimum design requirements under all applicable federal, state and local regulations; and, that inspections and inspection reports are made by myself and include any appearances of instability, structural weakness or other hazardous conditions of the structure affecting stability.

Signature: _____

Signature: _____

Date: 10/24/97Date: 10-24-97**CERTIFIED REPORT****IMPOUNDMENT EVALUATION** (If NO, explain under Comments)

YES

NO

- | | | |
|--|---|--|
| 1. Is impoundment designed and constructed in accordance with the approved plan? | X | |
| 2. Is impoundment free of instability, structural weakness, or any other hazardous condition? | X | |
| 3. Has the impoundment met all applicable performance standards and effluent limitations from the previous date of inspection? | X | |

COMMENTS AND OTHER INFORMATION

IMPOUNDMENT INSPECTION AND CERTIFIED REPORT				Page 1 of													
Permit Number	ACT/015/019		Report Date		January 9, 1998												
Mine Name	Cottonwood/Wilburg																
Company Name	Pacificorp																
Impoundment Identification	Impoundment Name	North Pond	South Pond	Waste Rock Pond													
	Impoundment Number																
	UPDES Permit Number	UT 0022896-003A		UT 0022896-005													
	MSHA ID Number	1211 UT-09-01944-01 1211-UT-09-01944-02															
IMPOUNDMENT INSPECTION																	
Inspection Date	No. Pond: 12-16-97; South Pond: 12-16-97; Waste Rock Pond: 12-16-97																
Inspected By	Richard Jensen and Richard Northrup																
Reason for Inspection (Annual, Quarterly or Other Periodic Inspection, Critical Installation, or Completion of Construction)		4th Quarter Inspection 1997															
<p>1. Describe any appearance of any instability, structural weakness, or any other hazardous condition.</p> <p>North Pond: No instabilities or weaknesses observed.</p> <p>South Pond: No instabilities or weaknesses observed.</p> <p>Waste Rock Site Pond: No instabilities observed.</p>																	
<p>Required for an impoundment which functions as a SEDIMENTATION POND.</p>		<p>2. Sediment storage capacity, including elevation of 60% and 100% sediment storage volumes, and, estimated average elevation of existing sediment.</p> <table border="1"> <thead> <tr> <th></th> <th>North Pond</th> <th>South Pond</th> <th>Waste Rock Pond</th> </tr> </thead> <tbody> <tr> <td>60% Design Storage Capacity</td> <td>.34 A.F. at 7351.0 ft.</td> <td>.19 A.F. at 7322.3 ft.</td> <td>1.45 A.F. at 6761.5 ft.</td> </tr> <tr> <td>100% Sediment Capacity</td> <td>.56 A.F. at 7354.83 ft.</td> <td>.32 A.F. at 7325.33 ft.</td> <td>2.42 A.F. at 6765.3 ft.</td> </tr> </tbody> </table>					North Pond	South Pond	Waste Rock Pond	60% Design Storage Capacity	.34 A.F. at 7351.0 ft.	.19 A.F. at 7322.3 ft.	1.45 A.F. at 6761.5 ft.	100% Sediment Capacity	.56 A.F. at 7354.83 ft.	.32 A.F. at 7325.33 ft.	2.42 A.F. at 6765.3 ft.
	North Pond	South Pond	Waste Rock Pond														
60% Design Storage Capacity	.34 A.F. at 7351.0 ft.	.19 A.F. at 7322.3 ft.	1.45 A.F. at 6761.5 ft.														
100% Sediment Capacity	.56 A.F. at 7354.83 ft.	.32 A.F. at 7325.33 ft.	2.42 A.F. at 6765.3 ft.														
<p>3. Principle and emergency spillway elevations.</p>																	

**IMPOUNDMENT INSPECTION AND CERTIFIED
REPORT**

Page 2 of

	North Pond	South Pond	Waste Rock Pond
Principal Spillway Elevation	7354.83	7325.33	6766.3
Emergency Spillway Elevation	7363.33	7334.2	6770.0

4. Field Information. Provide current water elevation, whether pond is discharging, type and number of samples taken, monitoring/instrumentation information, inlet/outlet conditions, or other related activities associated with the pond including but not limited to sediment cleanout, pond decanting, embankment erosion/repairs, monitoring information, vegetation on outslopes of embankments, etc.

	North Pond	South Pond	Waste Rock Pond
Water Elevation	7354.39	7329.27	6760.66
Discharging	Yes	Yes	No
Inlet/Outlet Condition	Good	Good	Good
Slope conditions	Good	Good	Good

*See "Hydrologic Monitoring Data" report submitted to DOGM quarterly for monitoring information.

**IMPOUNDMENT INSPECTION AND CERTIFIED
REPORT**

Page 3 of

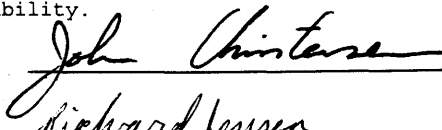
5. Field Evaluation. Describe any changes in the geometry of the impounding structure, average and maximum depths and elevations of impounded water, estimated sediment or slurry volume and remaining storage capacity, estimated volume of water impounded, and any other aspect of the impounding structure affecting its stability or function which has occurred during the reporting period.

	North Pond	South Pond	Waste Rock Pond
Sediment Volume	0	0	0.36 A.F.
Remaining Sediment Storage Capacity	.56 AF	.32 AF	2.06 AF
Water Impounded	0.50 AF	0.72	0.64
Changes, Comments, Etc.	Pond is frozen and functioning normally	Pond is frozen and functioning normally	Pond is frozen

**Qualification
Statement**

I hereby certify that; I am experienced in the construction of impoundments; I am qualified and authorized under the direction of a Registered Professional Engineer to inspect the condition and appearance of impoundments in accordance with the certified and approved designs for this structure; that the impoundment has been maintained in accordance with approved design and meet or exceed the minimum design requirements under all applicable federal, state and local regulations; and, that inspections and inspection reports are made by myself and include any appearances of instability, structural weakness or other hazardous conditions of the structure affecting stability.

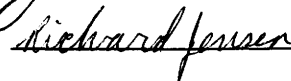
Signature:



Date:

1/14/98

Signature:



Date:

1-14-98

CERTIFIED REPORT**IMPOUNDMENT EVALUATION** (If NO, explain under Comments)

YES

NO

- | | | |
|--|---|--|
| 1. Is impoundment designed and constructed in accordance with the approved plan? | X | |
| 2. Is impoundment free of instability, structural weakness, or any other hazardous condition? | X | |
| 3. Has the impoundment met all applicable performance standards and effluent limitations from the previous date of inspection? | X | |

COMMENTS AND OTHER INFORMATION

**Certification
Statement:**

I hereby certify that; I am experienced in the construction of impoundments; I am qualified and authorized in the State of Utah to inspect and certify the condition and appearance of impoundments in accordance with the certified and approved designs for this structure; that the impoundment has been maintained in accordance with approved design and meet or exceed the minimum design requirements under all applicable federal, state and local regulations; and, that inspections and inspection reports are made by myself or under my direction and include any appearances of instability, structural weakness or other hazardous conditions of the structure affecting stability in accordance with the Utah R645 Coal Mining Rules.

[PE Cert. Stamp]

By: _____
(Full Name and Title)

Signature: _____ **Date:** _____

P.E. Number & State: _____

IMPOUNDMENT INSPECTION AND CERTIFIED REPORT

Page 1 of

Permit Number	Act/015/019	Report Date	January 9, 1998
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Mine Name	Cottonwood/Wilberg
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Company Name	PacifiCorp
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Impoundment Identification	Impoundment Name	COTTONWOOD CANYON NORTH BASIN SOUTH BASIN
	Impoundment Number	
	UPDES Permit Number	UT-0022896-002A
	MSHA ID Number	

IMPOUNDMENT INSPECTION

Inspection Date	12-16-97
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Inspected By	Richard Jensen and Richard Northrup
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Reason for Inspection (Annual, Quarterly or Other Periodic Inspection, Critical Installation, or Completion of Construction)	4th Quarter 1997 Inspection
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1. Describe any appearance of any instability, structural weakness, or any other hazardous condition.

No unstable or structural weaknesses found.

Required for an
impoundment which
functions as a
SEDIMENTATION POND.

2. Sediment storage capacity, including elevation of 60% and 100% sediment storage volumes, and, estimated average elevation of existing sediment.

	North Basin	South Basin
60% Design Storage Capacity	0.028 A.F.	0.069 A.F.
100% Sediment Capacity	0.047 A.F.	0.115 A.F.

3. Principle and emergency spillway elevations.

IMPOUNDMENT INSPECTION AND CERTIFIED REPORT		Page 2 of																
		North Basin	South Basin															
	Principle Spillway Elevation (F.A.S.L.):	7230.5	7223.6															
	Emergency Spillway Elevation:	7230.5	7223.6															
<p>4. Field Information. Provide current water elevation, whether pond is discharging, type and number of samples taken, monitoring/instrumentation information, inlet/outlet conditions, or other related activities associated with the pond including but not limited to sediment cleanout, pond decanting, embankment erosion/repairs, monitoring information, vegetation on outslopes of embankments, etc.</p> <table border="1"> <thead> <tr> <th></th> <th><u>North Basin</u></th> <th><u>South Basin</u></th> </tr> </thead> <tbody> <tr> <td>Water Elevation</td> <td>Dry</td> <td>Dry</td> </tr> <tr> <td>Discharging</td> <td>No</td> <td>No</td> </tr> <tr> <td>Inlet, Outlet Conditions</td> <td>Good</td> <td>Good</td> </tr> <tr> <td>Outslope Conditions</td> <td>Good</td> <td>Good</td> </tr> </tbody> </table> <p>*See "Hydrologic Monitoring Data" report submitted quarterly to DOGM for monitoring information.</p>					<u>North Basin</u>	<u>South Basin</u>	Water Elevation	Dry	Dry	Discharging	No	No	Inlet, Outlet Conditions	Good	Good	Outslope Conditions	Good	Good
	<u>North Basin</u>	<u>South Basin</u>																
Water Elevation	Dry	Dry																
Discharging	No	No																
Inlet, Outlet Conditions	Good	Good																
Outslope Conditions	Good	Good																

5. **Field Evaluation.** Describe any changes in the geometry of the impounding structure, average and maximum depths and elevations of impounded water, estimated sediment or slurry volume and remaining storage capacity, estimated volume of water impounded, and any other aspect of the impounding structure affecting its stability or function which has occurred during the reporting period.

North BasinSouth Basin

Sediment Volume	0 A.F.	0.050 A.F.
Remaining Sediment Storage Capacity	.047 A.F.	.065 A.F.
Changes, Comments, etc.	None	None

Qualification Statement

I hereby certify that; I am experienced in the construction of impoundments; I am qualified and authorized under the direction of a Registered Professional Engineer to inspect the condition and appearance of impoundments in accordance with the certified and approved designs for this structure; that the impoundment has been maintained in accordance with approved design and meet or exceed the minimum design requirements under all applicable federal, state and local regulations; and, that inspections and inspection reports are made by myself and include any appearances of instability, structural weakness or other hazardous conditions of the structure affecting stability.

Signature: John ChristensenDate: 1/14/98Signature: Richard JensenDate: 1-14-98**CERTIFIED REPORT****IMPOUNDMENT EVALUATION** (If NO, explain under Comments)

- | | YES | NO |
|--|-----|----|
| 1. Is impoundment designed and constructed in accordance with the approved plan? | X | |
| 2. Is impoundment free of instability, structural weakness, or any other hazardous condition? | X | |
| 3. Has the impoundment met all applicable performance standards and effluent limitations from the previous date of inspection? | X | |

COMMENTS AND OTHER INFORMATION

***DES-BEE-DOVE MINE SEDIMENT POND
REPORT***

IMPOUNDMENT INSPECTION AND CERTIFIED REPORT		Page 1 of	
Permit Number	ACT/015/017	Report Date	3/21/97
Mine Name	Des Bee Dove		
Company Name	Energy West Mining Company		
Impoundment Identification	Impoundment Name	Mine Site Pond	
	Impoundment Number		
	UPDES Permit Number	UT-0023591	
	MSHA ID Number		
IMPOUNDMENT INSPECTION			
Inspection Date	3/11/97		
Inspected By	Richard Jensen/John Christensen		
Reason for Inspection (Annual, Quarterly or Other Periodic Inspection, Critical Installation, or Completion of Construction)		1st Quarter 1997 Inspection	
<p>1. Describe any appearance of any instability, structural weakness, or any other hazardous condition.</p> <p>No structural weaknesses found.</p>			
<p>Required for an impoundment which functions as a SEDIMENTATION POND.</p>	<p>2. Sediment storage capacity, including elevation of 60% and 100% sediment storage volumes, and, estimated average elevation of existing sediment.</p> <p>60% Design Storage Capacity 1.2 A.F. at 6756</p> <p>100% Sediment Capacity 2.0 A.F. at 6757</p>		
<p>3. Principle and emergency spillway elevations.</p>			

Principle Spillway	
Elevation (F.A.S.L.):	6757.0
Emergency Sillway	
Elevation: (F.A.S.L.):	6771.5

4. Field Information. Provide current water elevation, whether pond is discharging, type and number of samples taken, monitoring/instrumentation information, inlet/outlet conditions, or other related activities associated with the pond including but not limited to sediment cleanout, pond decanting, embankment erosion/repairs, monitoring information, vegetation on outslopes of embankments, etc.

Water Elevation	6762.06 (pond frozen)
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Discharging	Yes
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Inlet, Outlet Conditions	Good
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Slope conditions	Good
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*See "Hydrologic Monitoring Data" report submitted quarterly to DOGM for monitoring information.

5. **Field Evaluation.** Describe any changes in the geometry of the impounding structure, average and maximum depths and elevations of impounded water, estimated sediment or slurry volume and remaining storage capacity, estimated volume of water impounded, and any other aspect of the impounding structure affecting its stability or function which has occurred during the reporting period.

Sediment Volume 0

Remaining Sediment
Storage Capacity 1.2 A.F.

Water Impounded 7 A.F.

Changes or Comments: None

Qualification Statement

I hereby certify that; I am experienced in the construction of impoundments; I am qualified and authorized under the direction of a Registered Professional Engineer to inspect the condition and appearance of impoundments in accordance with the certified and approved designs for this structure; that the impoundment has been maintained in accordance with approved design and meet or exceed the minimum design requirements under all applicable federal, state and local regulations; and, that inspections and inspection reports are made by myself and include any appearances of instability, structural weakness or other hazardous conditions of the structure affecting stability.

Signature: Richard J. JensenSignature: John ChristensenDate: 3-25-97Date: 3/26/97**CERTIFIED REPORT****IMPOUNDMENT EVALUATION** (If NO, explain under Comments)

YES

NO

- | | | |
|--|---|--|
| 1. Is impoundment designed and constructed in accordance with the approved plan? | X | |
| 2. Is impoundment free of instability, structural weakness, or any other hazardous condition? | X | |
| 3. Has the impoundment met all applicable performance standards and effluent limitations from the previous date of inspection? | X | |

COMMENTS AND OTHER INFORMATION

IMPOUNDMENT INSPECTION AND CERTIFIED REPORT		Page 1 of	
Permit Number	ACT/015/017	Report Date	June 26, 1997
Mine Name	Des Bee Dove		
Company Name	Energy West Mining Company		
Impoundment Identification	Impoundment Name	Mine Site Pond	
	Impoundment Number		
	UPDES Permit Number	UT-0023591	
	MSHA ID Number		
IMPOUNDMENT INSPECTION			
Inspection Date	June 26, 1997		
Inspected By	Richard Jensen and Richard Northrup		
Reason for Inspection (Annual, Quarterly or Other Periodic Inspection, Critical Installation, or Completion of Construction)		2nd Quarter 1997 Inspection	
<p>1</p> <p>No structural weaknesses found.</p>			
<p>Required for an impoundment which functions as a SEDIMENTATION POND.</p>	<p>2</p> <p>60% Design Storage Capacity 1.2 A.F. at 6756</p> <p>100% Sediment Capacity 2.0 A.F. at 6757</p>		
<p>3</p>			

Principle Spillway**Elevation (F.A.S.L.):** 6757.0**Emergency Sillway****Elevation: (F.A.S.L.):** 6771.5

4. Field Information. Provide current water elevation, whether pond is discharging, type and number of samples taken, monitoring/instrumentation information, inlet/outlet conditions, or other related activities associated with the pond including but not limited to sediment cleanout, pond decanting, embankment erosion/repairs, monitoring information, vegetation on outslopes of embankments, etc.

Water Elevation 6759.64

Discharging No

**Inlet, Outlet
Conditions** Good

Slope conditions Good

*See "Hydrologic Monitoring Data" report submitted quarterly to DOGM for monitoring information.

5. **Field Evaluation.** Describe any changes in the geometry of the impounding structure, average and maximum depths and elevations of impounded water, estimated sediment or slurry volume and remaining storage capacity, estimated volume of water impounded, and any other aspect of the impounding structure affecting its stability or function which has occurred during the reporting period.

Sediment Volume 2.26

Remaining Sediment
Storage Capacity 0

Water Impounded 1.74 A.F.

Changes or Comments: None

Qualification Statement

I hereby certify that; I am experienced in the construction of impoundments; I am qualified and authorized under the direction of a Registered Professional Engineer to inspect the condition and appearance of impoundments in accordance with the certified and approved designs for this structure; that the impoundment has been maintained in accordance with approved design and meet or exceed the minimum design requirements under all applicable federal, state and local regulations; and, that inspections and inspection reports are made by myself and include any appearances of instability, structural weakness or other hazardous conditions of the structure affecting stability.

Signature: John ChytenDate: 6/30/97Signature: Richard JensenDate: 6-30-97**CERTIFIED REPORT**

IMPOUNDMENT EVALUATION (If NO, explain under Comments)	YES	NO
1	x	
2	x	
3	x	
COMMENTS AND OTHER INFORMATION		

IMPOUNDMENT INSPECTION AND CERTIFIED REPORT		Page 1 of	
Permit Number	ACT/015/009	Report Date	10/9/97
Mine Name	Trail Mountain Mine		
Company Name	Energy West Mining Company		
Impoundment Identification	Impoundment Name	Trail Mountain Mine Pond:	
	Impoundment Number		
	UPDES Permit Number	UT-G04003-001	
	MSHA ID Number	N/A	
IMPOUNDMENT INSPECTION			
Inspection Date	9/16/97		
Inspected By	Richard Jensen and Chris Barbee		
Reason for Inspection (Annual, Quarterly or Other Periodic Inspection, Critical Installation, or Completion of Construction)		3rd Quarter 1997 Inspection	
<p>1. Describe any appearance of any instability, structural weakness, or any other hazardous condition.</p> <p>No unstable or structural weaknesses found relating to the dam or outlet structures.</p>			
Required for an impoundment which functions as a SEDIMENTATION POND.	<p>2. Sediment storage capacity, including elevation of 60% and 100% sediment storage volumes, and, estimated average elevation of existing sediment.</p> <p>60% Design Storage Capacity 0.282 A.F. at 7182</p> <p>100% Sediment Capacity 0.47 A.F. at 7183.6</p>		
3. Principle and emergency spillway elevations.			

Principle Spillway Elevation (F.A.S.L.):	7186.6
Emergency Spillway Elevation: (F.A.S.L.):	7194.6

4. Field Information. Provide current water elevation, whether pond is discharging, type and number of samples taken, monitoring/instrumentation information, inlet/outlet conditions, or other related activities associated with the pond including but not limited to sediment cleanout, pond decanting, embankment erosion/repairs, monitoring information, vegetation on outslopes of embankments, etc.

Water Elevation 7186.64

Discharging Yes

Inlet, Outlet
Conditions Some erosion has occurred around the rip rap at inlet to the pond.

Slope conditions Good

*See "Hydrologic Monitoring Data" report submitted quarterly to DOGM for monitoring information.

5. **Field Evaluation.** Describe any changes in the geometry of the impounding structure, average and maximum depths and elevations of impounded water, estimated sediment or slurry volume and remaining storage capacity, estimated volume of water impounded, and any other aspect of the impounding structure affecting its stability or function which has occurred during the reporting period.

Sediment Volume 0.31 A.F.

Remaining Sediment
Storage Capacity 0.16 A.F.

Water Impounded 0.4 A.F.

Comments: Preparations are being made to clean the sediment pond. Cleaning will take place early in the 4th Quarter. Some minor repairs were done to the inlet of the pond. Final repairs will be done after the pond is cleaned.

**Qualification
Statement**

I hereby certify that; I am experienced in the construction of impoundments; I am qualified and authorized under the direction of a Registered Professional Engineer to inspect the condition and appearance of impoundments in accordance with the certified and approved designs for this structure; that the impoundment has been maintained in accordance with approved design and meet or exceed the minimum design requirements under all applicable federal, state and local regulations; and, that inspections and inspection reports are made by myself and include any appearances of instability, structural weakness or other hazardous conditions of the structure affecting stability.

Signature: John Chaffee

Date: 10/24/97

Signature: Richard Jensen

Date: 10-24-97

CERTIFIED REPORT

IMPOUNDMENT EVALUATION (If NO, explain under Comments)	YES	NO
1. Is impoundment designed and constructed in accordance with the approved plan?	X	
2. Is impoundment free of instability, structural weakness, or any other hazardous condition?	X	
3. Has the impoundment met all applicable performance standards and effluent limitations from the previous date of inspection?	X	
COMMENTS AND OTHER INFORMATION		

Principle Spillway
Elevation (F.A.S.L.): 7186.6

Emergency Spillway
Elevation: (F.A.S.L.): 7194.6

4. Field Information. Provide current water elevation, whether pond is discharging, type and number of samples taken, monitoring/instrumentation information, inlet/outlet conditions, or other related activities associated with the pond including but not limited to sediment cleanout, pond decanting, embankment erosion/repairs, monitoring information, vegetation on outslopes of embankments, etc.

Water Elevation 7186.64

Discharging Yes

Inlet, Outlet
Conditions Some erosion has occurred around the rip rap at inlet to the pond.

Slope conditions Good

*See "Hydrologic Monitoring Data" report submitted quarterly to DOGM for monitoring information.

IMPOUNDMENT INSPECTION AND CERTIFIED REPORT		Page 1 of	
Permit Number	Act/015/017	Report Date	January 9, 1998
Mine Name	Des Bee Dove		
Company Name	Energy West Mining Company		
Impoundment Identification	Impoundment Name	Mine Site Pond	
	Impoundment Number		
	UPDES Permit Number	UT-0023591	
	MSHA ID Number		
IMPOUNDMENT INSPECTION			
Inspection Date	12-16-97		
Inspected By	Richard Jensen and Richard Northrup		
Reason for Inspection (Annual, Quarterly or Other Periodic Inspection, Critical Installation, or Completion of Construction)		4th Quarter 1997 Inspection	
<p>1. Describe any appearance of any instability, structural weakness, or any other hazardous condition.</p> <p>No structural weaknesses found.</p>			
<p>Required for an impoundment which functions as a SEDIMENTATION POND.</p>	<p>2. Sediment storage capacity, including elevation of 60% and 100% sediment storage volumes, and, estimated average elevation of existing sediment.</p> <p>60% Design Storage Capacity 1.2 A.F. at 6756</p> <p>100% Sediment Capacity 2.0 A.F. at 6757</p>		
<p>3. Principle and emergency spillway elevations.</p>			

	Principle Spillway Elevation (F.A.S.L.): 6757.0 Emergency Spillway Elevation: (F.A.S.L.): 6771.5
--	---

4. Field Information. Provide current water elevation, whether pond is discharging, type and number of samples taken, monitoring/instrumentation information, inlet/outlet conditions, or other related activities associated with the pond including but not limited to sediment cleanout, pond decanting, embankment erosion/repairs, monitoring information, vegetation on outslopes of embankments, etc.

Water Elevation	Small pockets of frozen water present
Discharging	No
Inlet, Outlet Conditions	Good
Slope Conditions	Good

*See "Hydrologic Monitoring Data" report submitted quarterly to DOGM for monitoring information.

5. Field Evaluation. Describe any changes in the geometry of the impounding structure, average and maximum depths and elevations of impounded water, estimated sediment or slurry volume and remaining storage capacity, estimated volume of water impounded, and any other aspect of the impounding structure affecting its stability or function which has occurred during the reporting period.

Sediment Volume 1.08 A.F.
Remaining Sediment Storage Capacity 0.92 A.F.
Water Impounded Insignificant amount

Changes or Comments: Sediment was cleaned from the pond during the first 3 weeks of October. No significant storms have occurred since, therefore the pond has just a small amount of pocketed water from small seeps present.

Qualification Statement

I hereby certify that; I am experienced in the construction of impoundments; I am qualified and authorized under the direction of a Registered Professional Engineer to inspect the condition and appearance of impoundments in accordance with the certified and approved designs for this structure; that the impoundment has been maintained in accordance with approved design and meet or exceed the minimum design requirements under all applicable federal, state and local regulations; and, that inspections and inspection reports are made by myself and include any appearances of instability, structural weakness or other hazardous conditions of the structure affecting stability.

Signature: John Chutane Date: 1/14/98
Signature: Richard Jensen Date: 1-14-98

CERTIFIED REPORT

IMPOUNDMENT EVALUATION (If NO, explain under Comments)	YES	NO
1. Is impoundment designed and constructed in accordance with the approved plan?	X	
2. Is impoundment free of instability, structural weakness, or any other hazardous condition?	X	
3. Has the impoundment met all applicable performance standards and effluent limitations from the previous date of inspection?	X	

***TRAIL MOUNTAIN MINE SEDIMENT
POND REPORT***

IMPOUNDMENT INSPECTION AND CERTIFIED REPORT		Page 1 of	
Permit Number	ACT/015/009	Report Date	3/21/97
Mine Name	Trail Mountain Mine		
Company Name	Energy West Mining Company		
Impoundment Identification	Impoundment Name	Trail Mountain Mine Pond:	
	Impoundment Number		
	UPDES Permit Number	UT-G04003-001	
	MSHA ID Number	N/A	
IMPOUNDMENT INSPECTION			
Inspection Date	3/7/97		
Inspected By	Richard Jensen		
Reason for Inspection (Annual, Quarterly or Other Periodic Inspection, Critical Installation, or Completion of Construction)		1st Quarter 1997 Inspection	
<p>1. Describe any appearance of any instability, structural weakness, or any other hazardous condition.</p> <p>No unstable or structural weaknesses found.</p>			
<p>Required for an impoundment which functions as a SEDIMENTATION POND.</p>	<p>2. Sediment storage capacity, including elevation of 60% and 100% sediment storage volumes, and, estimated average elevation of existing sediment.</p> <p>60% Design Storage Capacity 0.282 A.F. at 7182</p> <p>100% Sediment Capacity 0.47 A.F. at 7183.6</p>		
<p>3. Principle and emergency spillway elevations.</p>			

Principle Spillway Elevation (F.A.S.L.):	7186.6
Emergency Sillway Elevation: (F.A.S.L.):	7194.6

4. **Field Information.** Provide current water elevation, whether pond is discharging, type and number of samples taken, monitoring/instrumentation information, inlet/outlet conditions, or other related activities associated with the pond including but not limited to sediment cleanout, pond decanting, embankment erosion/repairs, monitoring information, vegetation on outslopes of embankments, etc.

Water Elevation	7189.45 (pond frozen)
-----------------	--------------------------

Discharging	Yes
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Inlet, Outlet Conditions	Good
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Slope conditions	Good
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*See "Hydrologic Monitoring Data" report submitted quarterly to DOGM for monitoring information.

5. **Field Evaluation.** Describe any changes in the geometry of the impounding structure, average and maximum depths and elevations of impounded water, estimated sediment or slurry volume and remaining storage capacity, estimated volume of water impounded, and any other aspect of the impounding structure affecting its stability or function which has occurred during the reporting period.

Sediment Volume 0.09 A.F.

Remaining Sediment
Storage Capacity 0.192 A.F.

Water Impounded 0.9 A.F.

Qualification Statement

I hereby certify that; I am experienced in the construction of impoundments; I am qualified and authorized under the direction of a Registered Professional Engineer to inspect the condition and appearance of impoundments in accordance with the certified and approved designs for this structure; that the impoundment has been maintained in accordance with approved design and meet or exceed the minimum design requirements under all applicable federal, state and local regulations; and, that inspections and inspection reports are made by myself and include any appearances of instability, structural weakness or other hazardous conditions of the structure affecting stability.

Signature: Richard JensenDate: 3-25-97Signature: John ChristensenDate: 3/26/97**CERTIFIED REPORT**

IMPOUNDMENT EVALUATION (If NO, explain under Comments)	YES	NO
1. Is impoundment designed and constructed in accordance with the approved plan?	X	
2. Is impoundment free of instability, structural weakness, or any other hazardous condition?	X	
3. Has the impoundment met all applicable performance standards and effluent limitations from the previous date of inspection?	X	
COMMENTS AND OTHER INFORMATION		

IMPOUNDMENT INSPECTION AND CERTIFIED REPORT		Page 1 of	
Permit Number	ACT/015/009	Report Date	6/26/97
Mine Name	Trail Mountain Mine		
Company Name	Energy West Mining Company		
Impoundment Identification	Impoundment Name	Trail Mountain Mine Pond:	
	Impoundment Number		
	UPDES Permit Number	UT-G04003-001	
	MSHA ID Number	N/A	
IMPOUNDMENT INSPECTION			
Inspection Date	5/29/97		
Inspected By	Richard Jensen and Richard Northrup		
Reason for Inspection (Annual, Quarterly or Other Periodic Inspection, Critical Installation, or Completion of Construction)		2nd Quarter 1997 Inspection	
<p>1. Describe any appearance of any instability, structural weakness, or any other hazardous condition.</p> <p>No unstable or structural weaknesses found.</p>			
Required for an impoundment which functions as a SEDIMENTATION POND.	<p>2. Sediment storage capacity, including elevation of 60% and 100% sediment storage volumes, and, estimated average elevation of existing sediment.</p> <p>60% Design Storage Capacity 0.282 A.F. at 7182</p> <p>100% Sediment Capacity 0.47 A.F. at 7183.6</p>		
<p>3. Principle and emergency spillway elevations.</p>			

Principle Spillway Elevation (F.A.S.L.):	7186.6
Emergency Spillway Elevation: (F.A.S.L.):	7194.6

4. **Field Information.** Provide current water elevation, whether pond is discharging, type and number of samples taken, monitoring/instrumentation information, inlet/outlet conditions, or other related activities associated with the pond including but not limited to sediment cleanout, pond decanting, embankment erosion/repairs, monitoring information, vegetation on outslopes of embankments, etc.

Water Elevation 7188.64

Discharging Yes

Inlet, Outlet
Conditions Good

Slope conditions Good

*See "Hydrologic Monitoring Data" report submitted quarterly to DOGM for monitoring information.

5. **Field Evaluation.** Describe any changes in the geometry of the impounding structure, average and maximum depths and elevations of impounded water, estimated sediment or slurry volume and remaining storage capacity, estimated volume of water impounded, and any other aspect of the impounding structure affecting its stability or function which has occurred during the reporting period.

Sediment Volume 0.31 A.F.

Remaining Sediment
Storage Capacity 0.16 A.F.

Water Impounded 0.8 A.F.

**Qualification
Statement**

I hereby certify that; I am experienced in the construction of impoundments; I am qualified and authorized under the direction of a Registered Professional Engineer to inspect the condition and appearance of impoundments in accordance with the certified and approved designs for this structure; that the impoundment has been maintained in accordance with approved design and meet or exceed the minimum design requirements under all applicable federal, state and local regulations; and, that inspections and inspection reports are made by myself and include any appearances of instability, structural weakness or other hazardous conditions of the structure affecting stability.

Signature: John Hunter

Date: 6/30/97

Signature: Richard Jensen

Date: 6-30-97

CERTIFIED REPORT

IMPOUNDMENT EVALUATION (If NO, explain under Comments)	YES	NO
1. Is impoundment designed and constructed in accordance with the approved plan?	X	
2. Is impoundment free of instability, structural weakness, or any other hazardous condition?	X	
3. Has the impoundment met all applicable performance standards and effluent limitations from the previous date of inspection?	X	
COMMENTS AND OTHER INFORMATION		

IMPOUNDMENT INSPECTION AND CERTIFIED REPORT		Page 1 of	
Permit Number	ACT/015/009	Report Date	10/9/97
Mine Name	Trail Mountain Mine		
Company Name	Energy West Mining Company		
Impoundment Identification	Impoundment Name	Trail Mountain Mine Pond:	
	Impoundment Number		
	UPDES Permit Number	UT-G04003-001	
	MSHA ID Number	N/A	
IMPOUNDMENT INSPECTION			
Inspection Date	9/16/97		
Inspected By	Richard Jensen and Chris Barbee		
Reason for Inspection (Annual, Quarterly or Other Periodic Inspection, Critical Installation, or Completion of Construction)		3rd Quarter 1997 Inspection	
<p>1. Describe any appearance of any instability, structural weakness, or any other hazardous condition.</p> <p>No unstable or structural weaknesses found relating to the dam or outlet structures.</p>			
Required for an impoundment which functions as a SEDIMENTATION POND.	<p>2. Sediment storage capacity, including elevation of 60% and 100% sediment storage volumes, and, estimated average elevation of existing sediment.</p> <p>60% Design Storage Capacity 0.282 A.F. at 7182</p> <p>100% Sediment Capacity 0.47 A.F. at 7183.6</p>		
	<p>3. Principle and emergency spillway elevations.</p>		

Principle Spillway Elevation (F.A.S.L.):	7186.6
Emergency Spillway Elevation: (F.A.S.L.):	7194.6

4. **Field Information.** Provide current water elevation, whether pond is discharging, type and number of samples taken, monitoring/instrumentation information, inlet/outlet conditions, or other related activities associated with the pond including but not limited to sediment cleanout, pond decanting, embankment erosion/repairs, monitoring information, vegetation on outslopes of embankments, etc.

Water Elevation 7186.64

Discharging Yes

Inlet, Outlet
Conditions Some erosion has occurred around the rip rap at inlet to the pond.

Slope conditions Good

*See "Hydrologic Monitoring Data" report submitted quarterly to DOGM for monitoring information.

5. **Field Evaluation.** Describe any changes in the geometry of the impounding structure, average and maximum depths and elevations of impounded water, estimated sediment or slurry volume and remaining storage capacity, estimated volume of water impounded, and any other aspect of the impounding structure affecting its stability or function which has occurred during the reporting period.

Sediment Volume 0.31 A.F.

Remaining Sediment
Storage Capacity 0.16 A.F.

Water Impounded 0.4 A.F.

Comments: Preparations are being made to clean the sediment pond. Cleaning will take place early in the 4th Quarter. Some minor repairs were done to the inlet of the pond. Final repairs will be done after the pond is cleaned.

**Qualification
Statement**

I hereby certify that; I am experienced in the construction of impoundments; I am qualified and authorized under the direction of a Registered Professional Engineer to inspect the condition and appearance of impoundments in accordance with the certified and approved designs for this structure; that the impoundment has been maintained in accordance with approved design and meet or exceed the minimum design requirements under all applicable federal, state and local regulations; and, that inspections and inspection reports are made by myself and include any appearances of instability, structural weakness or other hazardous conditions of the structure affecting stability.

Signature: John Chantre

Date: 10/24/97

Signature: Richard Jensen

Date: 10-24-97

CERTIFIED REPORT

IMPOUNDMENT EVALUATION (If NO, explain under Comments)	YES	NO
1. Is impoundment designed and constructed in accordance with the approved plan?	X	
2. Is impoundment free of instability, structural weakness, or any other hazardous condition?	X	
3. Has the impoundment met all applicable performance standards and effluent limitations from the previous date of inspection?	X	
COMMENTS AND OTHER INFORMATION		

IMPOUNDMENT INSPECTION AND CERTIFIED REPORT		Page 1 of	
Permit Number	Act/015/009	Report Date	January 9, 1998
Mine Name	Trail Mountain Mine		
Company Name	Energy West Mining Company		
Impoundment Identification	Impoundment Name	Trail Mountain Mine Pond:	
	Impoundment Number		
	UPDES Permit Number	UT-G04003-001	
	MSHA ID Number	N/A	
IMPOUNDMENT INSPECTION			
Inspection Date	12-18-97		
Inspected By	Richard Jensen		
Reason for Inspection (Annual, Quarterly or Other Periodic Inspection, Critical Installation, or Completion of Construction)		4th Quarter 1997 Inspection	
<p>1. Describe any appearance of any instability, structural weakness, or any other hazardous condition.</p> <p>No unstable or structural weaknesses found relating to the dam or outlet structures.</p>			
Required for an impoundment which functions as a SEDIMENTATION POND.	<p>2. Sediment storage capacity, including elevation of 60% and 100% sediment storage volumes, and, estimated average elevation of existing sediment.</p> <p>60% Design Storage Capacity 0.282 A.F. at 7182</p> <p>100% Sediment Capacity 0.47 A.F. at 7183.6</p>		
	<p>3. Principle and emergency spillway elevations.</p>		

	<p>Principle Spillway Elevation (F.A.S.L.): 7186.6</p> <p>Emergency Spillway Elevation: (F.A.S.L.): 7194.6</p>
--	--

4. Field Information. Provide current water elevation, whether pond is discharging, type and number of samples taken, monitoring/instrumentation information, inlet/outlet conditions, or other related activities associated with the pond including but not limited to sediment cleanout, pond decanting, embankment erosion/repairs, monitoring information, vegetation on outslopes of embankments, etc.

Water Elevation	Small amount
Discharging	No
Inlet, Outlet Conditions	Good
Slope Conditions	Good (See note under #5)

*See "Hydrologic Monitoring Data" report submitted quarterly to DOGM for monitoring information.

5. **Field Evaluation.** Describe any changes in the geometry of the impounding structure, average and maximum depths and elevations of impounded water, estimated sediment or slurry volume and remaining storage capacity, estimated volume of water impounded, and any other aspect of the impounding structure affecting its stability or function which has occurred during the reporting period.

Sediment Volume 0.0

Remaining Sediment Storage Capacity 0.47 A.F.

Water Impounded Small amount

Changes or Comments: Crews are finished with the cleaning of the pond, except for re-establishing the slope where equipment accessed the pond.

Qualification Statement

I hereby certify that; I am experienced in the construction of impoundments; I am qualified and authorized under the direction of a Registered Professional Engineer to inspect the condition and appearance of impoundments in accordance with the certified and approved designs for this structure; that the impoundment has been maintained in accordance with approved design and meet or exceed the minimum design requirements under all applicable federal, state and local regulations; and, that inspections and inspection reports are made by myself and include any appearances of instability, structural weakness or other hazardous conditions of the structure affecting stability.

Signature: John Chintese

Date: 1/14/98

Signature: Richard Jensen

Date: 1-14-98

CERTIFIED REPORT

IMPOUNDMENT EVALUATION (If NO, explain under Comments)	YES	NO
1. Is impoundment designed and constructed in accordance with the approved plan?	X	
2. Is impoundment free of instability, structural weakness, or any other hazardous condition?	X	
3. Has the impoundment met all applicable performance standards and effluent limitations from the previous date of inspection?	X	
COMMENTS AND OTHER INFORMATION		

**Certification
Statement:**

[PE Cert. Stamp]

I hereby certify that; I am experienced in the construction of impoundments; I am qualified and authorized in the State of Utah to inspect and certify the condition and appearance of impoundments in accordance with the certified and approved designs for this structure; that the impoundment has been maintained in accordance with approved design and meet or exceed the minimum design requirements under all applicable federal, state and local regulations; and, that inspections and inspection reports are made by myself or under my direction and include any appearances of instability, structural weakness or other hazardous conditions of the structure affecting stability in accordance with the Utah R645 Coal Mining Rules.

By: _____
(Full Name and Title)

Signature: _____ **Date:** _____

P.E. Number & State: _____

APPENDIX B

Reporting of Technical Data

including monitoring data, reports, maps, and other information
as required under the approved plan
or as required by the Division

in accordance with the requirements of R645-301-130 and R645-301-140.

CONTENTS

VEGETATION MONITORING 1997

VEGETATION DATA OR REVEGETATION SUCCESS MONITORING, INCLUDES MAPS

SEE VEGETATION MONITORING SECTION

SEE HYDROLOGY AND WATER MONITORING SECTION

SEE SUBSIDENCE MONITORING SECTION

**SECTION B: VEGETATION DATA OR REVEGETATION SUCCESS
MONITORING**

1. See Enclosed report (Mt. Nebo Scientific)
2. See enclosed report (Mt. Nebo Scientific)
3. See enclosed report (Mt. Nebo Scientific)
4. During the Spring or Fall of 1997 the following areas were seeded:

COTTONWOOD MINE

- A. East Mountain, above Des-Bee-Dove, adjacent to Cottonwood Mine, Subsidence area. Final Reclamation seed mix.

DEER CREEK MINE

- A. Deer Creek drain field, gray water area, replacement of drain fields, reseeded with interim mix spec's from the permit. Covered with straw and netting, completed in December of 1997.
- B. Coal exploration, Rilda Canyon, Right Fork, East Mountain, (6) locations. Roadway along Right Fork, Final Reclamation seed mix.
- C. Coal exploration, East Mountain, drill hole site, North and East of Pine Springs, For delineation of high ash for South reserves. Final Reclamation seed mix.

DES-BEE-DOVE MINE

- A. Beehive slope, disturbed during structure removal, reseeded in January of 1997 Interim seed mix.
- B. Texaco: Des-Bee-Dove haul road within the right-of-way from highway 57 on the North side and to the Easterly section line, Sec. 2, T18S, R7E.
NOTE: areas seeded by Texaco, using seed mix from the permit. Interim

TRAIL MOUNTAIN MINE

Nothing seeded during 1997 in the permitted area of the mine.

1997 VEGETATION MONITORING

	Qualitative	Quantitative			
		<u>Cov</u>	<u>Freq</u>	<u>Dens</u>	<u>Prod</u>
<u>COTTONWOOD MINE</u>					
Old Fan Road '84.(Final)	x				
Reference Area	x				
4th East Road '86	x	x	x	x	x
1988 Interim Revegetation					
Storage Yard Slope	x	x	x	x	x
Parking Lot Slope	x	x	x	x	x
Road/Silo Pad Slope	x	x	x	x	x
Tipple Area Slopes	x	x	x	x	x
Sediment Pond Banks	x	x	x	x	x
Ninth East Breakout '91	x				
Test Plots '88	x	x	x	x	x
Waste Rock Site (Old)					
Cell/Berm 1 '83	x				
Cells/Berms 2,3,4 '84, '85, '86	2,3,4	2,3,4	2,3,4	2,3,4	2,3,4
Cells 5,6 '89 (Reseeded) '93	x				
Cell 7 '92 Partial cell #7 '93	x				
CTW Reference Area	x				
CTW Soil Piles (A,B,C) '94	x	x	x	x	
Waste Rock Site (New) 1990					
Road Slopes	x				
Topsoil Stockpiles	x				
Subsoil Stockpile	x				
Sediment Pond Banks	x				
Waste Rock Site 1991					
Refuse Berm '91 (Final)	x				
Refuse Berm '94 (Final)	x	x	x	x	
Refuse Berm '96 (Final)seeded					
<u>COTTONWOOD CANYON</u>					
Fan Portal Area '81					
Reclaimed Slope	x	x	x	x	x
Soil Piles	x				
Reference Area	x	x	x	x	x
Tube Conveyor slope '96					
Belt Portal '96					
Portal (Diesel) '96					

DES BEE DOVE

1988 Revegetation Areas

Beehive Yard Slope	x	x	x	x	x
Beehive Road Berm	x	x	x	x	x
Deseret Road Berm	x	x	x	x	x
Portal Road Berm	x	x	x	x	x
Bathhouse Road Berm	x	x	x	x	x
Tipple Slope	x	x	x	x	x
Sediment Storage Slope	x	x	x	x	x
Sediment Pond Banks	x	x	x	x	x
Beehive Yard Slope (reseed portion in Jan '97)					

1986 Revegetation Areas

Haul Road Bench	x	x	x	x	x
Beehive Substation Slope	x	x	x	x	x

1985 Revegetation Areas

Sediment Pond Area	x	x	x	x	x
--------------------	---	---	---	---	---

1984 Revegetation Areas

Bathhouse Slope	x				
Material Yard Slope	x				
Test Plot '89	x				
Test Plot '92	x	x	x	x	

1997 Revegetation

- * Beehive slope, reseed in Jan. '97.
- * Haul Road, Texaco's disturbance areas. Dec. '97.

DEER CREEK MINE

C2 Conveyor (IU 132-190) '93	x	x	x	x	
-------------------------------------	---	---	---	---	--

1991 Revegetation Areas

Riparian Areas	x
Sediment Pond Dam	x
Temp. Sediment Basin	x

1990 Revegetation Areas

Roadside Areas	x
Gate Areas Slope	x

1989 Revegetation Areas

Fan Road Slope	x
----------------	---

1988 Revegetation Areas

Refuse Pile and Berm	x	x	x	x	x
Rockslide and Berm	x	x	x	x	x
Water Plant Slope	x	x	x	x	x

1986 Revegetation Areas

Pipe Line	x	x	x	x	x
Deer Canyon	x	x	x	x	x

Waste Rock Site

Interim Revegetation '89

Access Road Slopes	x
Phase 1 Berm	x

* Drain Field, Reconstr.
of field drains Dec. '97

Final Revegetation

Phase 1 Diversion '89	x
-----------------------	---

Rilda Canyon

Pad Area slopes '96				
Roadway slopes '96				
Top-Soil Pile '95	x	x	x	x
and some roadway slope				
Explor. Drill Pads (6) '96				

TRAIL MOUNTAIN MINE

Trail Sed. Pond Outslope '93	x
Trail Mtn. Parking Ext. '96	

* Revegetation during current year

J:\misc\97revmon.rpt

CAD FILE NAME: DS1630A.DWG

ENERGY WEST
MINING COMPANY
HARRINGTON, UTAH 84028

DEER CREEK MINE
1996 COAL EXPLORATION
RECLAMATION DATA

DS1630A

DRAWN BY: K. LARSEN

SCALE: 1" = 1000'

DATE: JANUARY 28, 1997

SHEET 1 OF 1 REV.

RECEIVED
8661 10 MAY

19
GUTHRIE & SONS, LTD. DIV.

20'x20' REVEGETATED AREAS
SEPTEMBER-OCTOBER 1996

U-06039

EM-158

EM-157

EM-153

EM-154

U-024317

SL-051221

EM-156

U-2810

EM-155

LANDFILL AREA
(SEE PLAN)

BOILERHOUSE AREA
(SEE PLAN)

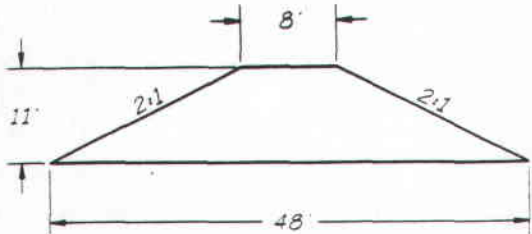
HILL PORK CANYON

RILDA CANYON

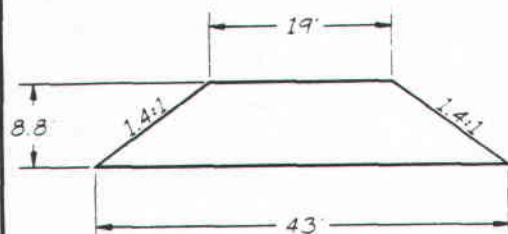


RECEIVED
MAY 01 1998
DIV. OF OIL, GAS & MINING

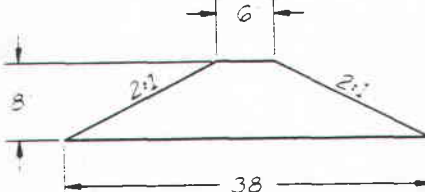
CROSS SECTIONS
SCALE: 1"=20'



TYPICAL CROSS SECTION
THRU PILE A



TYPICAL CROSS SECTION
THRU PILE B



TYPICAL CROSS SECTION
THRU PILE C

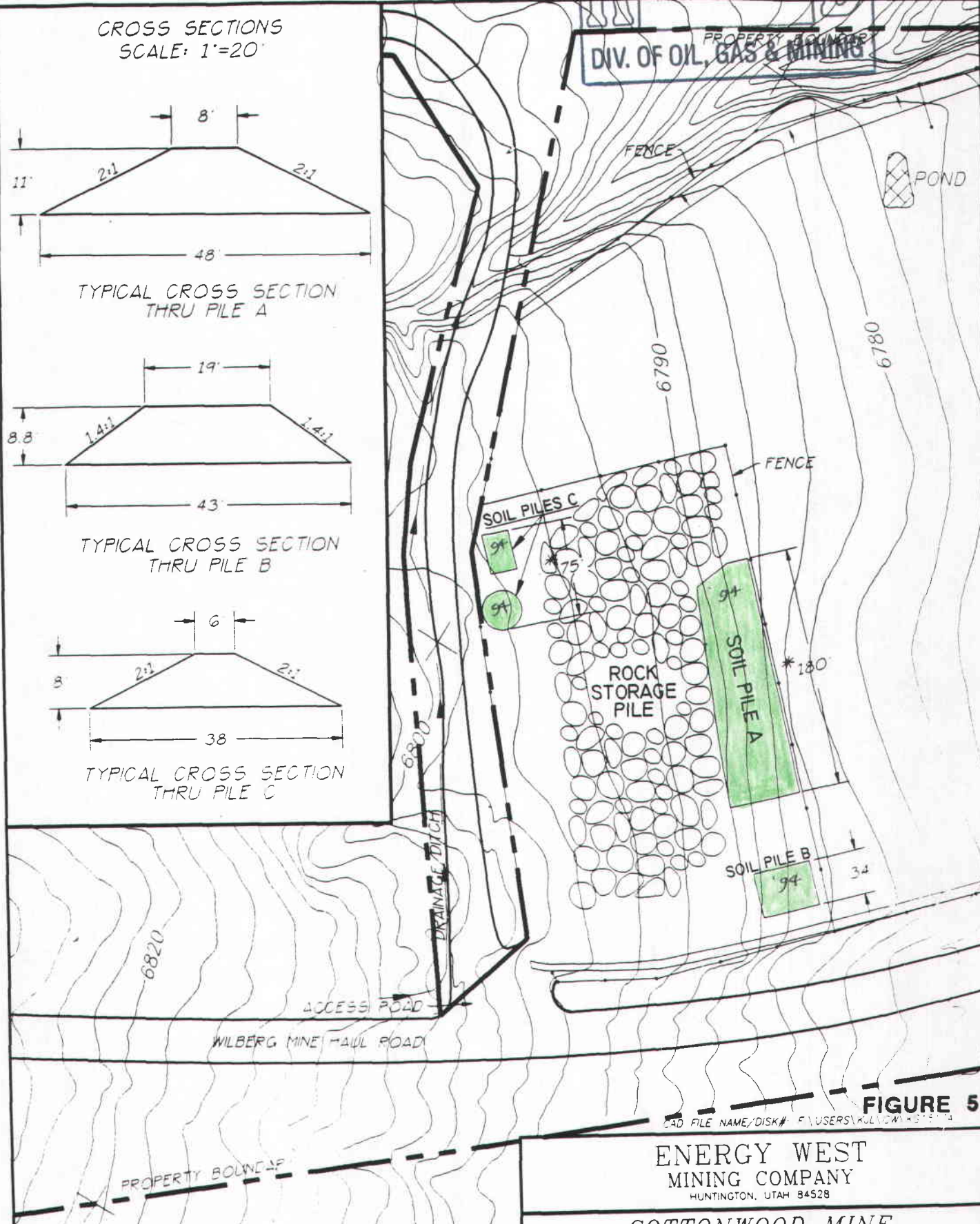


FIGURE 5

ENERGY WEST
MINING COMPANY
HUNTINGTON, UTAH 84528

COTTONWOOD MINE
OVERLAND CONVEYOR
SUBSOIL & NATIVE SOIL STORAGE

DRAWN BY: K. LARSEN

KS1517A

SCALE: 1"=100'

DRAWING #:

PILE A AND PILE C
ARE NATIVE SOILS
FOR THE OVERLAND
CONVEYOR RECLAMATION

PILE B IS SUBSOIL FOR
SEE COTTONWOOD MINE PORTAL

* DISTANCE WILL VARY

APPENDIX C

Legal, Financial, Compliance and Related Information

Annual Report of Officers
as submitted to the Utah Department of Commerce
and other changes in ownership and control information
as required under R645-301-110.

CONTENTS

Annual Report of Officers
list of NOV's to Jan. 1998
Partial R/W relinquishment of UTU-37642, Old Cottonwood WRS to Texaco
Coal lease modification UTU-64375, Trail Mtn.
Coal lease Bond Rider accepted, UTU-64375
Special-Use Permit Terminated on UTU-75535

Updated: February 6, 1998
SUBSIDIARY SUMMARY SHEET

Subsidiary Name: Energy West Mining Company

Directors: Dan R. Baker Dee W. Jense

Officers:

<u>Dee W. Jense</u>	President
	Vice President and Assistant Secretary
Dan R. Baker	Vice President
Sally A. Nofziger	Secretary
Bruce N. Williams	Treasurer
Lenore M. Martin	Assistant Secretary
Dexter E. Martin	Assistant Secretary
John F. Fryer	Assistant Treasurer

Attorney: Dexter E. Martin, Stoel Rives
950 Port of Portland Building

Registered Agent: C T Corporation System

Date/State of
Incorporation: Utah, July 19, 1990

States Qualified: Utah

Shareholder(s): PacifiCorp

Authorized Shares: 50,000 shares Common

No. of Shares
Outstanding: 100 shares (PacifiCorp)

Annual Meeting: First Wednesday in February

Nature of Business: coal mining

Principal Office: 15 North Main Street
Box 310
Huntington, Utah 84528
801 687 9821 801 687 2695 (fax)

Federal ID # 87-0479159

Required Board
Meeting Notice: minimum three days

summary\enrgwst.sum

**PacifiCorp Directors
1998**

<u>Name</u>	<u>Position</u>	<u>Address</u>
W. Charles Armstrong	Director	RR 2, Box 1074 East Sound, WA 98245-9409
Kathryn A. Braun	Director	Western Digital Corporation 8105 Irvine Center Drive Irvine, CA 92718
Frederick W. Buckman	Director	PacifiCorp 700 NE Multnomah, Suite 1600 Portland, OR 97232-4116
C. Todd Conover	Director	753 Berry Avenue Los Altos, CA 94024
Nolan E. Karras	Director	The Karras Company, Inc. 4695 South 1900 West, #3 Roy, UT 84067
Keith R. McKennon	Chairman	PacifiCorp 700 NE Multnomah, Suite 1600 Portland, OR 97232-4116
Robert G. Miller	Director	Fred Meyer, Inc. 3800 SE 22nd Avenue Portland, Oregon 97202
Alan K. Simpson	Director	c/o Laurie Rosen 3301 Turner Lane Chevy Chase, MD 20815
Verl R. Topham	Director	PacifiCorp 201 South Main, Suite 2300 Salt Lake City, UT 84140
Don M. Wheeler	Director	ICM Machinery Company 4899 West 2100 South Salt Lake City, UT 84120

Nancy Wilgenbusch

Director

Marylhurst College
PO Box 261
Marylhurst, OR 97036

Peter I. Wold

Director

Wold Companies
PO Box 114
Casper, WY 92602

234004.21w

2/6/98

**PacifiCorp Officers
1998**

<u>Name</u>	<u>Position</u>	<u>Address</u>
Frederick W. Buckman	President and CEO	700 NE Multnomah, Suite 1600 Portland, OR 97232-4116
John A. Bohling	Senior Vice President	700 NE Multnomah, Suite 1600 Portland, OR 97232-4116
William C. Brauer	Senior Vice President	201 South Main, 2300 OUC Salt Lake City, UT 84140
Shelley R. Faigle	Senior Vice President	920 SW Sixth Avenue, Suite 1500 Portland, OR 97204
Paul G. Lorenzini	Senior Vice President	920 SW Sixth Avenue, Suite 1500 Portland, OR 97204
Richard T. O'Brien	Senior Vice President & Chief Financial Officer	700 NE Multnomah, Suite 1600 Portland, OR 97232-4116
Daniel L. Spalding	Senior Vice President	Level 3, 77 Southbank Blvd Southbank, Victoria 3006 Australia
Dennis P. Steinberg	Senior Vice President	700 NE Multnomah, Suite 1600 Portland, OR 97232-4166
Verl R. Topham	Senior Vice President and General Counsel	201 South Main, Suite 2300 Salt Lake City, UT 84140
Sally A. Nofziger	Vice President and Corporate Secretary	700 NE Multnomah, Suite 1600 Portland, OR 97232-4116
Donald A. Bloodworth	Vice President	700 NE Multnomah, Suite 1600 Portland, OR 97232-4116
Anne E. Eakin	Vice President	825 NE Multnomah, Suite 625 Portland, OR 97232
Thomas J. Forsgren	Vice President	201 South Main, 2300 OUC Salt Lake City, UT 84140
Donald A. Furman	Vice President	700 NE Multnomah, Suite 500 Portland, OR 97232-4116


Michael C. Henderson

Vice President

825 NE Multnomah, Suite 775
Portland, OR 97232

David P. Hoffman

Vice President

700 NE Multnomah, Suite 1600
Portland, OR 97232-4116

James H. Huesgen

Vice President and
Controller700 NE Multnomah, Suite 1600
Portland, OR 97232-4116

Thomas J. Imeson

Vice President

700 NE Multnomah, Suite 1600
Portland, OR 97232-4116

Thomas A. Lockhart

Vice President

PO Box 720
Casper, WY 82602

Timothy E. Meier

Vice President

920 SW Sixth Avenue, Suite 1500
Portland, OR 97204

William E. Peressini

Vice President
& Treasurer700 NE Multnomah, Suite 1600
Portland, OR 97232

Michael J. Pittman

Vice President

920 SW Sixth Avenue, Suite 1100
Portland, OR 97204

Brian D. Sickels

Vice President

700 NE Multnomah, Suite 1600
Portland, OR 97232-4116

Ernest E. Wessman

Vice President

201 South Main, Suite 2100
Salt Lake City, Utah 84101

Richard D. Westerberg

Vice President

2484 Washington Blvd., Suite 400
Ogden, UT 84401

1998 PacifiCorp officers - cont.

Lenore M. Martin	Assistant Secretary	700 NE Multnomah, Suite 700 Portland, OR 97232-4116
Marsha E. Carroll	Assistant Secretary	700 NE Multnomah, Suite 700 Portland, OR 97232-4116
C. K. Ferguson	Assistant Secretary	825 NE Multnomah, Suite 570 Portland, OR 97232
John M. Schweitzer	Assistant Secretary	700 NE Multnomah, Suite 950 Portland, OR 97232
H. Arnold Wagner	Assistant Secretary	201 South Main, Suite 700 Salt Lake City, UT 84140
John F. Fryer	Assistant Treasurer	700 NE Multnomah, Suite 1600 Portland, OR 97232
John R. Stageberg	Assistant Treasurer	700 NE Multnomah, Suite 1600 Portland, OR 97232-4116
Bruce N. Williams	Assistant Treasurer	700 NE Multnomah, Suite 1600 Portland, OR 97232-4116

**Change in Membership on Board of Directors
and
Officer Personnel Changes
for Calendar Year 1997**

Board of Directors of PacifiCorp

Alan K. Simpson	Elected	January 22, 1997
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Pacific Board

John E. Mooney	Retired	March 31, 1997
John E. Bohling	Elected Member & Chair	April 1, 1997

Utah Regional Board

John E. Mooney	Retired	March 31, 1997
John E. Bohling	Elected Member & Chair	April 1, 1997
Steven D. Bennion	Elected Member	June 10, 1997

Wyoming Regional Board

Officer Personnel Changes

Anne E. Eakin	Elected Vice President	February 12, 1997
Donald N. Furman	Elected Vice President	February 12, 1997
Brian D. Sickels	Elected Vice President	February 12, 1997
Edwin J. O'Mara	Resigned-Vice President	March 25, 1997
John E. Mooney	Retired-Sr Vice Pres	March 31, 1997
Donald A. Bloodworth	Resigned-Controller	April 11, 1997
Paul N. Pechersky	Resigned-Vice President	July 18, 1997
Timothy E. Meier	Elected Vice President	September 1, 1997 (effective date)
Donald A. Bloodworth	Elected Vice President	November 11, 1997
James H. Huesgen	Elected Vice President & Controller	November 11, 1997
J. Brett Harvey	Resigned-Vice President	December 31, 1997

**Change in Membership on Board of Directors
and
Officer Personnel Changes
for Calendar Year 1998**

Board of Directors of PacifiCorp

Pacific Board

Paul G. Lorenzini	Resigned	February 1, 1998
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Utah Regional Board

Paul G. Lorenzini	Resigned	February 1, 1998
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Wyoming Regional Board

Officer Personnel Changes

Michael C. Henderson	Resigned - Vice President	February 1, 1998
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Interwest Mining Company NOV Information
Last Revised
2/11/98

Company	NOV Date	Plu/Mine	Permit #	NOV #	Agency	Nature of NOV	Assessment	Status	Status Date	Comments	MSHA # and Date of Issuance
Bridger Coal Company	7/22/92	Jim Bridger Mine	338-T2	2399-92	WDEQ/AQ D	Failure to control dust			01/06/93	Remediation plan approved	48-00677
Bridger Coal Company	9/3/92	Jim Bridger Mine	338-T2	100300	WDEQ/LQ D	Contaminated ground water and soil		Pending	10/12/92	Remedial action is progressing	48-00677
Bridger Coal Company	11/19/92	Jim Bridger Mine	338-T2	100309 PL.1	WDEQ/LQ D	Failure to strip topsoil before affecting area		Terminated	12/19/92	Remedial action completed	48-00677
Bridger Coal Company	11/19/92	Jim Bridger Mine	338-T2	100309 PL.2	WDEQ/LQ D	Failure to route all surface runoff from stockpiled coal		Terminated	12/19/92	Remedial action completed	48-00677
Bridger Coal Company	6/3/93	Jim Bridger Mine	338-T3	100263	WDEQ/LQ D	Failure to control sediment	\$1,000.00	Terminated	01/06/93	Sediment removed	48-00677
Bridger Coal Company	10/22/93	Jim Bridger Mine	338-T3	100274	WDEQ/LQ D	Operating off permit	\$3,000.00	Abated	01/06/93	IBR submitted	48-00677
Bridger Coal Company	6/20/95	Jim Bridger Mine	338-T3	100323	WDEQ/LQ D	Surface water diversion channel failed.	\$1,000.00	Terminated	7/11/95	Abated 6/28/95	48-00677
Bridger Coal Company	8/12/96	Jim Bridger Mine	338-T3	100535	WDEQ/LQ D	Failure to submit checkdam design for approval.	No fine	Pending	8/27/96	Design submitted	48-00677
Bridger Coal Company	8/15/96	Jim Bridger Mine	338-T3	100335	WDEQ/LQ D	Flyrock on undisturbed ground	\$2,000.00	Terminated	9/15/96	Flyrock removed	48-00677
Bridger Coal Company	4/1/97	Jim Bridger Mine	338-T3	100338	WDEQ/LQ D	Failure to install sediment control structure	\$3,000.00	Abated	4/3/97	Check Dam installed	48-00677
Bridger Coal Company	10/7/97	Jim Bridger Mine	338-T3	100339	WDEQ/LQ D	runoff bypassed structure	NA	Abated	10/30/97	berm enlarged	48-00677
Centralia Mining Company	9/15/93	Centralia	WA-0001C	93-011-392-2 (1 of 2)	OSM	Failure to respond to revision order	\$700.00	Terminated	8/26/94		45-00416 (6/77)
Centralia Mining Company	9/15/93	Centralia	WA-0001C	93-011-392-2 (2 of 2)	OSM	Static Safety Factor	\$1,200.00	Vacated	5/9/94	Penalty Vacated	45-00416 (6/77)
Centralia Mining Company	12/12/96	Centralia	WA-0001D	96-141-244-1	OSM	Failure to provide required info in Blasting Notice	None	Terminated	1/31/96	Published Notice	45-00416 (6/77)
Energy West Mining Company	4/9/92	Des-Bee-Dove	ACT/015/017	92-26-1-1	DOGM	Failure to maintain road drainage	\$360.00	Terminated	5/19/92	Final Assessment \$280	42-00988 (12/72)
Energy West Mining Company	9/24/92	Deer Creek	ACT/015/018	92-7-3-1	DOGM	Failure to maintain sediment control	\$100.00	Terminated	10/22/92	Remedial action required by 10/21/92	42-00122 (6/77)
Energy West Mining Company	10/2/92	Cottonwood/Milberg	ACT/015/019	92-34-1-1	DOGM	Failure to conduct mining in accordance with approved PAP	\$640.00	Terminated	10/22/92	Submit plans for mine discharge by 10/20/92	42-01944 (7-85)
Energy West Mining Company	9/16/93	Deer Creek	ACT/015/018	93-7-1-3	DOGM	Failure to conduct mining activities in accordance with approved plan - Lower terrace	\$500.00	Modified	12/20/93	Abatement submitted	42-00121 (6/77)

Interwest Mining Company NOV Information
Last Revised
2/11/98

Company	NOV Date	Plt/Mine	Permit #	NOV #	Agency	Nature of NOV	Assessment	Status	Status Date	Comments	MSHA # and Date of Issuance
Energy West Mining Company	12/2/93	Des-Bee-Dove	ACT/015/017	93-020-190-05	DOGM	Failure to control erosion		Abatement	01/13/94		42-00988 (12/72)
Energy West Mining Company	7/7/95	Deer Creek	ACT/015/018	95-35-01-01	DOGM	Failure to obtain a permit prior to conducting coal mining activities.	None	Vacated	8/21/95	Facts appealed to DOGM	42-00120 (6/77)
Energy West Mining Company	9/15/95	Hunter Prep Plant	None	94-020-370-002	DOGM	Failure to permit Prep Plant	OSM Restrained FDC Order 12/19/94	Administrative Appeal	08/04/95	Appealed to IBLA	42-02052
Energy West Mining Company	8/20/96	Trail Mt.	ACT/015/009	96-26-2-1	DOGM	Non-coal waste designation	\$180.00	Terminated			42-01211
Energy West Mining Company	2/13/97	Des-Bee-Dove	ACT/015/017	97-41-3-1	DOGM	Failure to maintain road drainage	\$500.00	Vacated	6/10/97	Informal Conference 5/15/97	42-00988
Energy West Mining Company	8/23/95	Deer Creek	ACT/015/018	95-35-02-01	DOGM	Failure to comply to permit placement of fill material untested (Rilda)	\$560.00	Terminated	5/17/96		42-00121
Glenrock Coal Company	1/17/95	Dave Johnston Mine	291-T4	100530	LQD	Inadequate pre-strip of top soil. Unprotected top soil.	\$1,000.00	Terminated	1/17/95	Penalty Vacated 6/7/95	48-00085 (3/9/73)
Glenrock Coal Company	5/1/97	Dave Johnston Mine	291-T4	100844	LQD	Non approved disposal of petroleum liquids	\$1,000.00	Pending		Permit revision submitted and approved by LQD	48-00085 (3/9/73)
Energy West Mining Company	1/20/98	Des-Bee-Dove	ACT/015/017	98-41-1-1	DOGM	Failure to protect stockpiled soil from unnecessary compaction	\$160.00	Terminated	2/10/98	Appealing Assessment	42-00988

Table AF 6-1-1
Notices of Violation, Bridger Coal Company and Affiliates
 (Rev 08/97)

Company		NOV Information				
Mine and Permit Number	Date	Number and Agency	Nature	Assessment	Status	Status Date Comments
Bridger Coal Company, Jim Bridger Mine, 338-T2	7/22/92	2399- 92, WDEQ/AQD	Failure to control dust			01/06/93 Remediation plan approved
Bridger Coal Company, Jim Bridger Mine, 338-T2	9/3/92	100300, WDEQ/LQD	Contaminated ground water and soil		Pending	10/12/92 Remedial action is progressing
Bridger Coal Company, Jim Bridger Mine, 338-T2	11/19/92	100309 Pt. 1, WDEQ/LQD	Failure to strip topsoil before affecting area		Terminated	12/19/92 Remedial action completed
Bridger Coal Company, Jim Bridger Mine, 338-T2	11/19/92	100309 Pt. 2, WDEQ/LQD	Failure to route all surface runoff from stockpiled coal		Terminated	12/19/92 Remedial action completed
Bridger Coal Company, Jim Bridger Mine, 338-T3	6/3/93	100263, WDEQ/LQD	Failure to control sediment	\$1,000.00	Terminated	01/06/93 Sediment removed
Bridger Coal Company, Jim Bridger Mine, 338-T3	10/22/93	100274, WDEQ/LQD	Operating off permit	\$3,000.00	Abated	01/06/93 IBR submitted
Bridger Coal Company, Jim Bridger Mine, 338-T3	6/20/95	100323, WDEQ/LQD	Surface water diversion channel failed.	\$1,000.00	Terminated	7/11/95 Abated 6/28/95
Bridger Coal Company, Jim Bridger Mine, 338-T3	8/12/96	100535, WDEQ/LQD	Failure to submit checkdam design for approval.	No fine	Pending	8/27/96 Design submitted
Bridger Coal Company, Jim Bridger Mine, 338-T3	8/15/96	100335, WDEQ/LQD	Flyrock on undisturbed ground	\$2,000.00	Terminated	9/15/96 Flyrock removed
Bridger Coal Company, Jim Bridger Mine, 338-T3	4/1/97	100338, WDEQ/LQD	Failure to install sediment control structure	\$3,000.00	Abated	4/3/97 Check Dam installed

Table AF 6-1-1

Centralia Mining Company, Centralia, WA-0001C	9/15/93	93-011-392-2 (1 of 2), OSM	Failure to respond to revision order	\$700.00	Terminated	8/26/94	
Centralia Mining Company, Centralia, WA-0001C	9/15/93	93-011-392-2 (2 of 2), OSM	Static Safety Factor	\$1,200.00	Vacated	5/9/94	Penalty Vacated
Centralia Mining Company, Centralia, WA-0001D	12/12/96	96-141-244-1, OSM	Failure to provide required info in Blasting Notice	None	Terminated	1/31/96	Published Notice
Energy West Mining Company, Des-Bee-Dove, ACT/015/017	4/9/92	92-26-1-1, DOGM	Failure to maintain road drainage	\$360.00	Terminated	5/19/92	Final Assessment \$280
Energy West Mining Company, Deer Creek, ACT/015/018	9/24/92	92-7-3-1, DOGM	Failure to maintain sediment control	\$100.00	Terminated	10/22/92	Remedial action required by 10/21/92
Energy West Mining Company, Cottonwood/Wilberg, ACT/015/019	10/2/92	92-34-1-1, DOGM	Failure to conduct mining in accordance with approved PAP	\$640.00	Terminated	10/22/92	Submit plans for mine discharge by 10/20/92
Energy West Mining Company, Deer Creek, ACT/015/018	9/16/93	93-7-1-3, DOGM	Failure to conduct mining activities in accordance with approved plan - Lower terrace	\$500.00	Modified	12/20/93	Abatement submitted
Energy West Mining Company, Des-Bee-Dove, ACT/015/017	12/2/93	93-020-190-05, DOGM	Failure to control erosion		Abatement	01/13/94	
Energy West Mining Company, Deer Creek, ACT/015/018	7/7/95	95-35-01-01, DOGM	Failure to obtain a permit prior to conducting coal mining activities.	None	Vacated	8/21/95	Facts appealed to DOGM
Energy West Mining Company, Hunter Prep Plant, None	9/15/95	94-020-370- 002, DOGM	Failure to permit Prep Plant	OSM Restrained FDC Order 12/19/94	Administrative Appeal	08/04/95	Appealed to IBLA
Energy West Mining Company, Trail Mt., ACT/015/009	8/20/96	96-26-2-1, DOGM	Non-coal waste designation	\$180.00	Terminated		

Table AF 6 1 1

Energy West Mining Company, Des-Bee-Dove, ACT/015/017	2/13/97	97-41-3-1, DOGM	Failure to maintain road drainage	\$500.00	Vacated	6/10/97	Informal Conference 5/15/97
Energy West Mining Company, Deer Creek, ACT/015/018	8/23/95	95-35-02-01, DOGM	Failure to comply to permit placement of fill material untested (Rilda)	\$560.00	Terminated	5/17/96	
Glenrock Coal Company, Dave Johnston Mine, 291-T4	1/17/95	100530, LQD	Inadequate pre-strip of top soil. Unprotected top soil.	\$1,000.00	Terminated	1/17/95	Penalty Vacated 6/7/95





United States Department of the Interior

BUREAU OF LAND MANAGEMENT

Moab District

Price River/San Rafael Resource Area

125 South 800 West

Price, Utah 84501

2890
UTU-37642
(UT-067)

MAY 23 1997

Certified Mail--Return Receipt Requested
Certificate No. 382 123 825

DECISION

PacifiCorp
C/O Interwest Mining Company
One Utah Center, Suite 2000
Salt Lake City, Utah 84140-0020
Attention Property Manager Administrator

Right-of-Way UTU-37642

Partial Right-of-Way Relinquishment Accepted Details of Relinquishment

On February 24, 1997, Interwest Mining Company filed a notice of relinquishment on the following described parcel of public land within right-of-way UTU-37642.

Beginning at a point S 32°35'06" E, 333.34 feet from the east ¼ corner of Section 34, T. 17 S., R. 7 E., SLB&M.; thence S 25°37'57" E, 113.14 feet; thence S 25°27'00" W, 117.42 feet; thence S 72°20'00" W, 214.90 feet; thence S 62° 54'12" W, 69.67 feet; thence S 54° 05'38" W, 349.36 feet; thence S 72°32'03" E, 87.70 feet; thence N 50°27'20" E, 295.51 feet; thence N 69°41'04" E, 398.55 feet; thence N 32°35'06" W, 248.84 feet to the point of beginning.

Containing 1.08 acres more or less.

Relinquishment of the above described parcel of public land is hereby accepted. An adjustment in the rental will be made and reflected in your billing notice of January 1, 1998. Authority for such action is found in the Federal Land Policy and Management Act of 1976 (90 Stat 2776, 43 U.S.C. 1761) and in Title 43 of the Code of Federal Regulations, part 2800.

Please contact Mark Mackiewicz at (801) 636-3600 if you have any question regarding this action.

Mark E. Bailey
Ad Area Manager

B. MALICK - DGM

CC: B. WEBSTER - IMC
C. POLLASTRO - EWMC
G. SCHABORSKI - ..

D. NORTHRUP - ..

B. ARNOLD - NTD IND

J. KIRKHAM - SR&L AUES

TEXAS E&P PRODUCTION - B. SCHAFITZEL



One Utah Center, Suite 2000
Salt Lake City, Utah 84140-0020
(801) 220-4616 • FAX (801) 220-4725



A Subsidiary of PacifiCorp

January 20, 1997

Mr. Robert Lopez
Group Leader
Minerals Adjudication Group
United States Department of the Interior
Bureau of Land Management
Utah State Office
324 South State, Suite 301
Salt Lake City, Utah 84111-2303

***RE: PacifiCorp Endorsement of Federal Coal Lease Modification UTU-64375,
Trail Mountain Coal Mine, Emery County, Utah***

Dear Bob:

In response to your letter dated January 13, 1997, enclosed are four (4) originals of federal coal lease modification UTU-64375, signed and dated by PacifiCorp, thereby accepting the modified lease terms. Under separate cover letter dated January 10, 1997, a rider bond with the additional rental payment of \$268.00 was hand delivered to your office.

Upon final endorsement by the BLM, please return one original to my attention at the above address. Should you have any questions or need additional information, please feel free to contact me at 801-220-4612.

Sincerely,

Scott M. Child
Property Management Administrator

Enclosures

SMC13UTBLM97 002

cc: IMC w/o copy encl. - D.W. Jense
EWMC w/copy encl. - C. Semborski

UNITED STATES
DEPARTMENT OF THE INTERIOR
BUREAU OF LAND MANAGEMENT

Serial No. UTU-64375

MODIFIED COAL LEASE

Date of Lease: October 1, 1990

PART I.

THIS MODIFIED COAL LEASE is entered into effective **February 8, 1997**, by and between the UNITED STATES OF AMERICA, hereinafter called the Lessor, through the Bureau of Land Management, and

PacifiCorp
One Utah Center, Suite 2000
201 South Main Street
Salt Lake City, Utah 84140-0020

hereinafter called Lessee.

This modified lease shall retain the effective date of October 1, 1990, of the original COAL LEASE UTU-64375, and is effective for a period of 20 years therefrom, and for so long thereafter as coal is produced in commercial quantities from the leased lands, subject to readjustment of lease terms at the end of the 20th lease year (**October 1, 2010**), and each 10-year period thereafter.

Sec. 1. This lease is issued pursuant and subject to the terms and provisions of the: (NOTE: Check the appropriate Act or Acts.)

XX Mineral Lands Leasing Act of 1920, as amended, 41 Stat. 437, 30 U.S.C. 181-287, hereinafter referred to as the Act;

 Mineral Leasing Act for Acquired Lands of 1947, 61 Stat. 913, 30 U.S.C. 351-359;

and to the regulations and formal orders of the Secretary of the Interior which are now or hereafter in force, when not inconsistent with the express and specific provisions herein.

Sec. 2. Lessee as the holder of Coal Lease UTU-64375, issued effective October 1, 1990, was granted the exclusive right and privilege to drill for, mine, extract, remove or otherwise process and dispose of the coal deposits in, upon, or under the lands described below as Tract 1.

The Lessor in consideration of fair market value, rents and royalties to be paid, and the conditions and covenants to be observed as herein set forth, hereby grants and leases to Lessee the exclusive right and privilege to drill for, mine, extract, remove, or otherwise process and dispose of the coal deposits in, upon, or under the lands described below as Tract 2.

Tract 1: T. 17 S., R. 6 E., SLM, Utah
Sec. 26, S2SW, W2SWSE;
Sec. 27, S2S2;
Sec. 34, all;
Sec. 35, lots 3, 4, W2SWNE,
S2NW, SW, W2W2SE.

T. 18 S., R. 6 E., SLM, Utah
Sec. 1, lots 1-8, S2N2, E2NESW,
E2NWNESW, N2NWNESW, N2NWSE;
Sec. 2, lots 1-8, S2N2, N2NESW, N2SWNESW,
SENESE, N2SWNESE, N2NWSE,
N2S2NWSE;
Sec. 3, lots 1,2,8, NESENE.
T. 18 S., R. 7 E., SLM, Utah
Sec. 6, lots 4-7, W2SENE, W2E2SW.

2,630.81 Acres

Tract 2: T. 18 S., R. 6 E., SLM, Utah
Sec. 3, lot 3, E2 of lot 6, lot 7,
NESWNE, NWSENE, S2SENE.
133.2 Acres

TOTAL ACRES: 2,764.01

containing 2,764.01 acres, more or less, together with the right to construct such works, buildings, plants, structures, equipment and appliances and the right to use such on-lease rights-of-way which may be necessary and convenient in the exercise of the rights and privileges granted, subject to the conditions herein provided.

casualties not attributable to the Lessee. The Lessor, in the public interest, may suspend the condition of continued operation upon payment of advance royalties in accordance with the regulations in existence at the time of the suspension.

Part II. TERMS AND CONDITIONS

Sec. 1.(a) RENTAL RATE - Lessee shall pay Lessor rental annually and in advance for each acre or fraction thereof during the continuance of the lease at the rate of \$3.00 per acre for each lease year.

(b) RENTAL CREDITS - Rental shall not be credited against either production or advance royalties for any year.

Sec. 2.(a) PRODUCTION ROYALTIES - The royalty shall be 8 percent of the value of the coal as set forth in the regulations. Royalties are due to Lessor the final day of the month succeeding the calendar month in which the royalty obligation accrues.

(b) ADVANCE ROYALTIES - Upon request by the Lessee, the authorized officer may accept, for a total of not more than 10 years, the payment of advance royalties in lieu of continued operation, consistent with the regulations. The advance royalty shall be based on a percent of the value of a minimum number of tons determined in the manner established by the advance royalty regulations in effect at the time the Lessee requests approval to pay advance royalties in lieu of continued operation.

Sec. 3. BONDS - Lessee shall maintain in the proper office a lease bond in the amount of \$1,946,000. The authorized officer may require an increase in this amount when additional coverage is determined appropriate.

Sec. 4. DILIGENCE - This lease achieved diligent development November 30, 1991, and is subject to the conditions of continued operation. Continued operation may be excused when operations under the lease are interrupted by strikes, the elements, or

The Lessor reserves the power to assent to or order the suspension of the terms and conditions of this lease in accordance with, *inter alia*, Section 39 of the Mineral Leasing Act, 30 U.S.C. 209.

Sec. 5. LOGICAL MINING UNIT (LMU) - The lands contained in the original lease have been submitted as a modification to the LMU Trail Mountain UTU-73339, March 31, 1994. Within 30 days after the effective date of this lease modification, the Lessee shall amend its modification of the Trail Mountain Logical Mining Unit to include the 133.2 acres added to coal lease UTU-64375 by this modification. The modified land shall be segregated into another Federal coal lease should the Lessee fail to file such an amendment.

The stipulations established in an LMU approval in effect at the time of LMU approval or modification will supersede the relevant inconsistent terms of this lease so long as the lease remains committed to the LMU. If the LMU of which this lease is a part is dissolved, the lease shall then be subject to the lease terms which would have been applied if the lease had not been included in the LMU.

Sec. 6. DOCUMENTS, EVIDENCE AND INSPECTION - At such times and in such form as Lessor may prescribe, Lessee shall furnish detailed statements showing the amounts and quality of all products removed and sold from the lease, the proceeds therefrom, and the amount used for production purposes or unavoidably lost.

Lessee shall keep open at all reasonable times for the inspection of any duly authorized officer of Lessor, the leased premises and all surface and underground improvements, works, machinery, ore stockpiles, equipment, and all books, accounts,

maps, and records relative to operations, surveys, or investigations on or under the leased lands.

Lessee shall allow Lessor access to and copying of documents reasonably necessary to verify Lessee compliance with terms and conditions of the lease.

While this lease remains in effect, information obtained under this section shall be closed to inspection by the public in accordance with the Freedom of Information Action (5 U.S.C. 552).

Sec. 7. DAMAGES TO PROPERTY AND CONDUCT OF OPERATIONS - Lessee shall comply at its own expense with all reasonable orders of the Secretary, respecting diligent operations, prevention of waste, and protection of other resources.

Lessee shall not conduct exploration operations, other than casual use, without an approved exploration plan. All exploration plans prior to the commencement of mining operations within an approved mining permit area shall be submitted to the authorized officer.

Lessee shall carry on all operations in accordance with approved methods and practices as provided in the operating regulations, having due regard for the prevention of injury to life, health, or property, and prevention of waste, damage or degradation any land, air, water, cultural, biological, visual, and other resources, including mineral deposits and formations of mineral deposits not leased hereunder, and to other land uses or users. Lessee shall take measures deemed necessary by Lessor to accomplish the intent of this lease term. Such measures may include, but not limited to, modification to proposed siting or design of facilities, timing of operations, and specifications of interim and final reclamation procedures. Lessor reserves to itself the right to lease, sell, or otherwise dispose of the surface or other mineral deposits in the lands and the right to continue existing uses and to authorize future uses upon or in the leased lands, including issuing leases for mineral deposits not covered hereunder and approving easements or rights-of-way. Lessor shall condition such uses to prevent unnecessary or unreasonable interference with rights of Lessee as may be consistent with concepts of multiple use and multiple mineral development.

Sec. 8 PROTECTION OF DIVERSE INTERESTS, AND EQUAL OPPORTUNITY - Lessee shall: pay when due all taxes legally assessed and levied

under the laws the State or the United States; accord all employees complete freedom of purchase; pay all wages at least twice each month in lawful money of the United States; maintain a safe working environment in accordance with standard industry practices; restrict the workday to not more than 8 hours in any one day for underground workers, except in emergencies; and take measures necessary to protect the health and safety of the public. No person under the age of 16 years shall be employed in any mine below the surface. To the extent that laws of the State in which the lands are situated are more restrictive than the provisions in this paragraph, then the State laws apply.

Lessee will comply with all provisions of Executive Order No. 11246 of September 24, 1965, as amended, and the rules, regulations, and relevant orders of the Secretary of Labor. Neither Lessee nor Lessee's subcontractors shall maintain segregated facilities.

Sec. 9.(a) TRANSFERS

X This lease may be transferred in whole or in part to any person, association or corporation qualified to hold such lease interest.

— This lease may be transferred in whole or in part to another public body, or to a person who will mine the coal on behalf of, and for the use of, the public body or to a person who for the limited purpose of creating a security interest in favor of a lender agrees to be obligated to mine the coal on behalf of the public body.

— This lease may only be transferred in whole or in part to another small business qualified under 13 CFR 121.

Transfers of record title, working or royalty interest must be approved in accordance with the regulations.

(b) **RELINQUISHMENTS** - The Lessee may relinquish in writing at any time all rights under this lease or any portion thereof as provided in the regulations. Upon Lessor's acceptance of the relinquishment, Lessee shall be relieved of all future obligations under the lease or the relinquished portion thereof, whichever is applicable.

Sec. 10. DELIVERY OF PREMISES, REMOVAL OF MACHINERY, EQUIPMENT, ETC. - At such times as all portions of this lease are returned to Lessor, Lessee shall deliver up to Lessor the land leased, underground timbering, and such other supports and structures necessary for the preservation of the mine workings on the leased premises or deposits and place all workings in condition for suspension or abandonment. Within 180 days thereof, Lessee shall remove from the premises all other structures, machinery, equipment, tools, and materials that it elects to or as required by the authorized officer. Any such structures, machinery, equipment, tools, and materials remaining on the leased lands beyond 180 days, or approved extension thereof, shall become the property of the Lessor, but Lessee shall either remove any or all such property or shall continue to be liable for the cost of removal and disposal in the amount actually incurred by the Lessor. If the surface is owned by third parties, Lessor shall waive the requirement for removal, provided the third parties do not object to such waiver. Lessee shall, prior to the termination of bond liability or at any other time when required and in accordance with all applicable laws and regulations, reclaim all lands the surface of which has been disturbed, dispose of all debris or solid waste, repair the offsite and onsite damage caused by Lessee's activity or activities incidental thereto, and reclaim access roads or trails.

Sec. 11. PROCEEDINGS IN CASE OF DEFAULT - If Lessee fails to comply with applicable laws, existing regulations, or the terms, conditions and stipulations of this lease, and the noncompliance continues for 30 days after written notice thereof, this lease shall be subject to cancellation by the Lessor only by judicial proceedings. This provision shall not be construed to prevent the exercise by Lessor of any other legal and equitable remedy, including waiver of the default. Any such remedy or waiver shall not prevent later cancellation for the same default occurring at any other time.

Sec. 12. HEIRS AND SUCCESSORS - INTEREST - Each obligation of this lease shall extend to and be binding upon, and every benefit hereof shall inure to, the heirs, executors, administrators, successors, or assigns of the respective parties hereto.

Sec. 13. INDEMNIFICATION - Lessee shall indemnify and hold harmless the United States from any and all claims arising out of the Lessee's

activities and operations under this lease.

Sec. 14. SPECIAL STATUTES - This lease is subject to the Federal Water Pollution Control Act (33 U.S.C. 1151 - 1175); the Clean Air Act (42 U.S.C. 1857 et seq.), and to all other applicable laws pertaining to exploration activities, mining operations and reclamation, including the Surface Mining Control and Reclamation Act of 1977 (30 U.S.C. 1201 et seq.)

Sec. 15. SPECIAL STIPULATIONS -

See Attached Stipulations

1. The Regulatory Authority shall mean the State Regulatory Authority pursuant to a cooperative agreement approved under 30 CFR Part 745 or in the absence of a cooperative agreement, Office of Surface Mining. The authorized officer shall mean the State Director, Bureau of Land Management. The authorized officer of the Surface Management Agency shall mean the Forest Supervisor, Forest Service. Surface Management Agency for private surface is the Bureau of Land Management. For adjoining private lands with Federal minerals and which primarily involve National Forest Service issues, the Forest Service will have the lead for environmental analysis and, when necessary, documentation in an environmental assessment or environmental impact statement.

2. The authorized officers, of the Bureau of Land Management, Office of Surface Mining (Regulatory Authority), and the Surface Management Agency (Forest Service) respectively, shall coordinate, as practical, regulation of mining operations and associated activities on the lease area.

3. In accordance with Sec. 523(b) of the "Surface Mining Control and Reclamation Act of 1977," surface mining and reclamation operations conducted on this lease are to conform with the requirements of this Act and are subject to compliance with Office of Surface Mining Regulations, or as applicable, a Utah program equivalent approved under cooperative agreement in accordance with Sec. 523(c). The United States Government does not warrant that the entire tract will be susceptible to mining.

4. Federal Regulations 43 CFR 3400 pertaining to Coal Management make provisions for the Surface Management Agency, the surface of which is under the jurisdiction of any Federal agency other than the Department of Interior, to consent to leasing and to prescribe conditions to insure the use and protection of the lands. All or part of this lease contain lands the surface of which are managed by the United States Department of Agriculture, Forest Service Manti-LaSal National Forest.

The following stipulations pertain to the lessee responsibility for mining operations on the lease area and on adjacent areas as may be specifically designated on National Forest System lands.

5. Before undertaking activities that may disturb the surface of previously undisturbed leased lands, the lessee may be required to conduct a cultural resource inventory and a paleontological appraisal of the areas to be disturbed. These studies shall be conducted by qualified professional cultural resource specialists or qualified paleontologists, as appropriate, and a report prepared itemizing the findings. A plan will then be submitted making recommendations for the protection of, or measures to be taken to mitigate impacts for identified cultural or paleontological resources.

If cultural resources or paleontological remains (fossils) of significant scientific interest are discovered during operations under this lease, the lessee prior to disturbance shall, immediately bring them to the attention of the appropriate authorities. Paleontological

remains of significant scientific interest do not include leaves, ferns, or dinosaur tracks commonly encountered during underground mining operations.

The cost of conducting the inventory, preparing reports, and carrying out mitigating measures shall be borne by the lessee.

6. If there is reason to believe that threatened or endangered (T&E) species of plants or animals, or migratory bird species of high Federal interest occur in the area the lessee shall be required to conduct an intensive field inventory of the area to be disturbed and/or impacted. The inventory shall be conducted by a qualified specialist and a report of findings will be prepared. A plan will be prepared making recommendations for the protection of these species or action necessary to mitigate the disturbance.

The cost of conducting the inventory, preparing reports, and carrying out mitigating measures shall be borne by the lessee.

7. The lessee shall be required to perform a study to secure adequate baseline data to quantify the existing surface resources on and adjacent to the lease area. Existing data may be used if such data is adequate for the intended purposes. The study shall be adequate to locate, quantify, and demonstrate the inter-relationship of the geology, topography, surface hydrology, vegetation, and wildlife. Baseline data will be established so that future programs of observation can be incorporated at regular intervals for comparison.

8. Powerlines used in conjunction with the mining of coal from this lease shall be constructed so as to provide adequate protection for raptors and other large birds. When feasible, powerlines will be located at least 100 yards from public roads.

9. The limited area available for mine facilities at the coal outcrop, steep topography, adverse winter weather, and physical limitations on the size and design of the access road, are factors which will determine the ultimate size of the surface area utilized for the mine. A site specific environmental analysis will be prepared for each new mine site development and for major modifications to existing developments to examine alternatives and mitigate conflicts.

10. Consideration will be given to site selection to reduce adverse visual impacts. Where alternative sites are available, and each alternative is technically feasible, the alternative involving the least damage to the scenery and other resources shall be selected. Permanent structures and facilities will be designed, and screening techniques employed, to reduce visual impacts, and where possible achieve a final landscape compatible with the natural surroundings. The creation of unusual, objectionable, or unnatural land forms and vegetative landscape features will be avoided.

11. The lessee shall be required to establish a monitoring system to locate, measure, and quantify the progressive and final effects of underground mining activities on the topographic surface, underground and surface hydrology and vegetation. The monitoring

system shall utilize techniques which will provide a continuing record of change over time and an analytical method for location and measurement of a number of points over the lease area. The monitoring shall incorporate and be an extension of the baseline data.

12. The lessee shall provide for the suppression and control of fugitive dust on haul roads and at coal handling and storage facilities. On Forest Development Roads (FDR), lessees may perform their share of road maintenance by a commensurate share agreement if a significant degree of traffic is generated that is not related to their activities.

13. Except at specifically approved locations, underground mining operations shall be conducted in such a manner so as to prevent surface subsidence that would: (1) cause the creation of hazardous conditions such as potential escarpment failure and landslides, (2) cause damage to existing surface structures, or (3) damage or alter the flow of perennial streams. The lessee shall provide specific measures for the protection of escarpments, and determine corrective measures to assure that hazardous conditions are not created.

14. In order to avoid surface disturbance on steep canyon slopes and to preclude the need for surface access, all surface breakouts for ventilation tunnels shall be constructed from inside the mine, except at specifically approved locations.

15. If removal of timber is required for clearing of construction sites, etc., such timber shall be removed in accordance with the regulations of the surface management agency.

16. The coal contained within, and authorized for mining under this lease, shall be extracted only by underground mining methods.

17. Existing Forest Service owned or permitted surface improvements will need to be protected, restored, or replaced to provide for the continuance of current land uses.

18. In order to protect big game wintering areas, elk calving and deer fawning areas, sagegrouse strutting areas, and other critical wildlife habitat and/or activities, specific surface uses outside the mine development area may be curtailed during specific periods of the year.

19. Support facilities, structures, equipment, and similar developments will be removed from the lease area within 2 years after the final termination of use of such facilities. This provision shall apply unless the requirement of Section 10 of the lease form is applicable. Disturbed areas and those areas previously occupied by such facilities will be stabilized and rehabilitated, drainages reestablished, and the areas returned to a premining land use.

20. The lessee at the conclusion of the mining operations, or at other times as surface disturbance related to mining may occur, will replace all damaged, disturbed, or displaced corner monuments (section corners, quarter corners, etc.) their accessories and

appendages (witness trees, bearing trees, etc.), or restore them to their original condition and location, or at other locations that meet the requirements of the rectangular surveying system. This work shall be conducted at the expense of the lessee, by a professional land surveyor registered in the State of Utah and to the standards and guidelines found in the manual of surveying instruction, U.S. Department of Interior.

21. The lessee at his expense will be responsible to replace any surface water identified for protection, that may be lost or adversely affected by mining operations, with water from an alternative source in sufficient quantity and quality to maintain existing riparian habitat, fishery habitat, livestock and wildlife use, or other land uses.

22. The lessee must comply with all the rules and regulations of the Secretary of Agriculture set forth at Title 36, Chapter II, of the Code of Federal Regulations governing the use and management of the National Forest System (NFS) when not inconsistent with the rights granted by the Secretary of the Interior in the lease. The Secretary of Agriculture's rules and regulations must be complied with for (1) all use and occupancy of the NFS prior to approval of a permit/operation plan by the Secretary of Interior, (2) uses of all existing improvements, such as Forest Development Roads, within and outside the area licensed, permitted or leased by the Secretary of Interior, and (3) use and occupancy of the NFS not authorized by a permit/operation plan approved by the Secretary of the Interior.

All matters related to this stipulation are to be addressed to:

Forest Supervisor
Manti-LaSal National Forest
599 West Price River Drive
Price, Utah 84501

Telephone No.: 801-637-2817

who is the authorized representative of the Secretary of Agriculture.

23. Notwithstanding the approval of a resource recovery and protection plan by the BLM, lessor reserves the right to seek damages against the operator/lessee in the event (i) the operator/lessee fails to achieve maximum economic recovery [as defined at 43 CFR §3480.0-5(21)] of the recoverable coal reserves or (ii) the operator/lessee is determined to have caused a wasting of recoverable coal reserves. Damages shall be measured on the basis of the royalty that would have been payable on the wasted or unrecovered coal.

The parties recognize that under an approved R2P2, conditions may require a modification by the operator/lessee of that plan. In the event a coal bed or portion thereof is not to be mined or is rendered unminable by the operation, the operator shall submit appropriate justification to obtain approval by the AO to leave such reserves unmined. Upon approval by the AO, such coal beds or portions thereof shall not be subject to

damages as described above. Further, nothing in this section shall prevent the operator/lessee from exercising its right to relinquish all or a portion of the lease as authorized by statute and regulation.

In the event the AO determines that the R2P2 as approved will not attain MER as the result of changed conditions, the AO will give proper notice to the operator/lessee as required under applicable regulations. The AO will order a modification if necessary, identifying additional reserves to be mined in order to attain MER. Upon a final administrative or judicial ruling upholding such an ordered modification, any reserves left unmined (wasted) under that plan will be subject to damages as described in the first paragraph under this section.

Subject to the right to appeal hereinafter set forth, payment of the value of the royalty on such unmined recoverable coal reserves shall become due and payable upon determination by the AO that the coal reserves have been rendered unminable or at such time that the lessee has demonstrated an unwillingness to extract the coal.

The BLM may enforce this provision either by issuing a written decision requiring payment of the MMS demand for such royalties, or by issuing a notice of non-compliance. A decision or notice of non-compliance issued by the lessor that payment is due under this stipulation is appealable as allowed by law.

24. Due to the uncertainty of the amount of recoverable coal tons in this modification, the lessee will pay the fair market value (FMV) for the coal resources mined in the area of Federal coal lease modification (UTU-64375) at the rate of \$0.25 per ton for the actual tonnage mined. Payment of FMV at the specified rate and tonnage mined will be on the schedule required for payment of production royalties to the Minerals Management Service (MMS). The lessee will clearly indicate which portion of the payment is for royalty and what is for lease bonus payment.

UNITED STATES
DEPARTMENT OF THE INTERIOR
BUREAU OF LAND MANAGEMENT

MODIFIED COAL LEASE

Serial No. UTU-64375

Date of Lease: October 1, 1990

The United States of America

PACIFICORP

Company or Lessee Name

(Signature of Lessee)

J. Brett Harvey

Vice President

(Title)

January 16, 1997

(Date)

By

(Signing Officer)

(Title)

(Date)

Title 18 U.S.C. Section 1001, makes it a crime for any person knowingly and willfully to make to any department or agency of the United States any false, fictitious or fraudulent statements or representations as to any matter within its jurisdiction.

One Utah Center, Suite 2000
Salt Lake City, Utah 84140-0020
(801) 220-4616 • FAX (801) 220-4725



A Subsidiary of PacifiCorp

January 20, 1997

Mr. Robert Lopez
Group Leader
Minerals Adjudication Group
United States Department of the Interior
Bureau of Land Management
Utah State Office
324 South State, Suite 301
Salt Lake City, Utah 84111-2303

***RE: PacifiCorp Endorsement of Federal Coal Lease Modification UTU-64375,
Trail Mountain Coal Mine, Emery County, Utah***

Dear Bob:

In response to your letter dated January 13, 1997, enclosed are four (4) originals of federal coal lease modification UTU-64375, signed and dated by PacifiCorp, thereby accepting the modified lease terms. Under separate cover letter dated January 10, 1997, a rider bond with the additional rental payment of \$268.00 was hand delivered to your office.

Upon final endorsement by the BLM, please return one original to my attention at the above address. Should you have any questions or need additional information, please feel free to contact me at 801-220-4612.

Sincerely,

A handwritten signature in black ink, appearing to read "Scott M. Child". The signature is fluid and cursive, with the first and last names being more prominent.

Scott M. Child
Property Management Administrator

Enclosures

SMC13\UTBLM97.002

cc: IMC w/o copy encl. - D.W. Jense
EWMC w/copy encl. - C. Semborski

UNITED STATES
DEPARTMENT OF THE INTERIOR
BUREAU OF LAND MANAGEMENT

Serial No. UTU-64375

MODIFIED COAL LEASE

Date of Lease: October 1, 1990

PART I.

THIS MODIFIED COAL LEASE is entered into effective **February 8, 1997**, by and between the UNITED STATES OF AMERICA, hereinafter called the Lessor, through the Bureau of Land Management, and

PacifiCorp
One Utah Center, Suite 2000
201 South Main Street
Salt Lake City, Utah 84140-0020

hereinafter called Lessee.

This modified lease shall retain the effective date of October 1, 1990, of the original COAL LEASE UTU-64375, and is effective for a period of 20 years therefrom, and for so long thereafter as coal is produced in commercial quantities from the leased lands, subject to readjustment of lease terms at the end of the 20th lease year (October 1, 2010), and each 10-year period thereafter.

Sec. 1. This lease is issued pursuant and subject to the terms and provisions of the: (NOTE: Check the appropriate Act or Acts.)

XX Mineral Lands Leasing Act of 1920, as amended, 41 Stat. 437, 30 U.S.C. 181-287, hereinafter referred to as the Act;

 Mineral Leasing Act for Acquired Lands of 1947, 61 Stat. 913, 30 U.S.C. 351-359;

and to the regulations and formal orders of the Secretary of the Interior which are now or hereafter in force, when not inconsistent with the express and specific provisions herein.

Sec. 2. Lessee as the holder of Coal Lease UTU-64375, issued effective October 1, 1990, was granted the exclusive right and privilege to drill for, mine, extract, remove or otherwise process and dispose of the coal deposits in, upon, or under the lands described below as Tract 1.

The Lessor in consideration of fair market value, rents and royalties to be paid, and the conditions and covenants to be observed as herein set forth, hereby grants and leases to Lessee the exclusive right and privilege to drill for, mine, extract, remove, or otherwise process and dispose of the coal deposits in, upon, or under the lands described below as Tract 2.

Tract 1: T. 17 S., R. 6 E., SLM, Utah
Sec. 26, S2SW, W2SWSE;
Sec. 27, S2S2;
Sec. 34, all;
Sec. 35, lots 3, 4, W2SWNE,
S2NW, SW, W2W2SE.

T. 18 S., R. 6 E., SLM, Utah
Sec. 1, lots 1-8, S2N2, E2NESW,
E2NWNESW, N2NWNESW, N2NWSE;
Sec. 2, lots 1-8, S2N2, N2NESW, N2SWNESW,
SENESE, NWNESE, N2SWNESE, N2NWSE,
N2S2NWSE;
Sec. 3, lots 1,2,8, NESENE.
T. 18 S., R. 7 E., SLM, Utah
Sec. 6, lots 4-7, W2SENE, W2E2SW.

2,630.81 Acres

Tract 2: T. 18 S., R. 6 E., SLM, Utah
Sec. 3, lot 3, E2 of lot 6, lot 7,
NESWNE, NWSENE, S2SENE.
133.2 Acres

TOTAL ACRES: 2,764.01

containing 2,764.01 acres, more or less, together with the right to construct such works, buildings, plants, structures, equipment and appliances and the right to use such on-lease rights-of-way which may be necessary and convenient in the exercise of the rights and privileges granted, subject to the conditions herein provided.

casualties not attributable to the Lessee. The Lessor, in the public interest, may suspend the condition of continued operation upon payment of advance royalties in accordance with the regulations in existence at the time of the suspension.

Part II. TERMS AND CONDITIONS

Sec. 1.(a) RENTAL RATE - Lessee shall pay Lessor rental annually and in advance for each acre or fraction thereof during the continuance of the lease at the rate of \$3.00 per acre for each lease year.

(b) RENTAL CREDITS - Rental shall not be credited against either production or advance royalties for any year.

Sec. 2.(a) PRODUCTION ROYALTIES - The royalty shall be 8 percent of the value of the coal as set forth in the regulations. Royalties are due to Lessor the final day of the month succeeding the calendar month in which the royalty obligation accrues.

(b) ADVANCE ROYALTIES - Upon request by the Lessee, the authorized officer may accept, for a total of not more than 10 years, the payment of advance royalties in lieu of continued operation, consistent with the regulations. The advance royalty shall be based on a percent of the value of a minimum number of tons determined in the manner established by the advance royalty regulations in effect at the time the Lessee requests approval to pay advance royalties in lieu of continued operation.

Sec. 3. BONDS - Lessee shall maintain in the proper office a lease bond in the amount of \$1,946,000. The authorized officer may require an increase in this amount when additional coverage is determined appropriate.

Sec. 4. DILIGENCE - This lease achieved diligent development November 30, 1991, and is subject to the conditions of continued operation. Continued operation may be excused when operations under the lease are interrupted by strikes, the elements, or

The Lessor reserves the power to assent to or order the suspension of the terms and conditions of this lease in accordance with, inter alia, Section 39 of the Mineral Leasing Act, 30 U.S.C. 209.

Sec. 5. LOGICAL MINING UNIT (LMU) - The lands contained in the original lease have been submitted as a modification to the LMU Trail Mountain UTU-73339, March 31, 1994. Within 30 days after the effective date of this lease modification, the Lessee shall amend its modification of the Trail Mountain Logical Mining Unit to include the 133.2 acres added to coal lease UTU-64375 by this modification. The modified land shall be segregated into another Federal coal lease should the Lessee fail to file such an amendment.

The stipulations established in an LMU approval in effect at the time of LMU approval or modification will supersede the relevant inconsistent terms of this lease so long as the lease remains committed to the LMU. If the LMU of which this lease is a part is dissolved, the lease shall then be subject to the lease terms which would have been applied if the lease had not been included in the LMU.

Sec. 6. DOCUMENTS, EVIDENCE AND INSPECTION - At such times and in such form as Lessor may prescribe, Lessee shall furnish detailed statements showing the amounts and quality of all products removed and sold from the lease, the proceeds therefrom, and the amount used for production purposes or unavoidably lost.

Lessee shall keep open at all reasonable times for the inspection of any duly authorized officer of Lessor, the leased premises and all surface and underground improvements, works, machinery, ore stockpiles, equipment, and all books, accounts,

maps, and records relative to operations, surveys, or investigations on or under the leased lands.

Lessee shall allow Lessor access to and copying of documents reasonably necessary to verify Lessee compliance with terms and conditions of the lease.

While this lease remains in effect, information obtained under this section shall be closed to inspection by the public in accordance with the Freedom of Information Action (5 U.S.C. 552).

Sec. 7. DAMAGES TO PROPERTY AND CONDUCT OF OPERATIONS - Lessee shall comply at its own expense with all reasonable orders of the Secretary, respecting diligent operations, prevention of waste, and protection of other resources.

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Lessee shall carry on all operations in accordance with approved methods and practices as provided in the operating regulations, having due regard for the prevention of injury to life, health, or property, and prevention of waste, damage or degradation any land, air, water, cultural, biological, visual, and other resources, including mineral deposits and formations of mineral deposits not leased hereunder, and to other land uses or users. Lessee shall take measures deemed necessary by Lessor to accomplish the intent of this lease term. Such measures may include, but not limited to, modification to proposed siting or design of facilities, timing of operations, and specifications of interim and final reclamation procedures. Lessor reserves to itself the right to lease, sell, or otherwise dispose of the surface or other mineral deposits in the lands and the right to continue existing uses and to authorize future uses upon or in the leased lands, including issuing leases for mineral deposits not covered hereunder and approving easements or rights-of-way. Lessor shall condition such uses to prevent unnecessary or unreasonable interference with rights of Lessee as may be consistent with concepts of multiple use and multiple mineral development.

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under the laws of the State or the United States; accord all employees complete freedom of purchase; pay all wages at least twice each month in lawful money of the United States; maintain a safe working environment in accordance with standard industry practices; restrict the workday to not more than 8 hours in any one day for underground workers, except in emergencies; and take measures necessary to protect the health and safety of the public. No person under the age of 16 years shall be employed in any mine below the surface. To the extent that laws of the State in which the lands are situated are more restrictive than the provisions in this paragraph, then the State laws apply.

Lessee will comply with all provisions of Executive Order No. 11246 of September 24, 1965, as amended, and the rules, regulations, and relevant orders of the Secretary of Labor. Neither Lessee nor Lessee's subcontractors shall maintain segregated facilities.

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2. The authorized officers, of the Bureau of Land Management, Office of Surface Mining (Regulatory Authority), and the Surface Management Agency (Forest Service) respectively, shall coordinate, as practical, regulation of mining operations and associated activities on the lease area.

3. In accordance with Sec. 523(b) of the "Surface Mining Control and Reclamation Act of 1977," surface mining and reclamation operations conducted on this lease are to conform with the requirements of this Act and are subject to compliance with Office of Surface Mining Regulations, or as applicable, a Utah program equivalent approved under cooperative agreement in accordance with Sec. 523(c). The United States Government does not warrant that the entire tract will be susceptible to mining.

4. Federal Regulations 43 CFR 3400 pertaining to Coal Management make provisions for the Surface Management Agency, the surface of which is under the jurisdiction of any Federal agency other than the Department of Interior, to consent to leasing and to prescribe conditions to insure the use and protection of the lands. All or part of this lease contain lands the surface of which are managed by the United States Department of Agriculture, Forest Service Manti-LaSal National Forest.

The following stipulations pertain to the lessee responsibility for mining operations on the lease area and on adjacent areas as may be specifically designated on National Forest System lands.

5. Before undertaking activities that may disturb the surface of previously undisturbed leased lands, the lessee may be required to conduct a cultural resource inventory and a paleontological appraisal of the areas to be disturbed. These studies shall be conducted by qualified professional cultural resource specialists or qualified paleontologists, as appropriate, and a report prepared itemizing the findings. A plan will then be submitted making recommendations for the protection of, or measures to be taken to mitigate impacts for identified cultural or paleontological resources.

If cultural resources or paleontological remains (fossils) of significant scientific interest are discovered during operations under this lease, the lessee prior to disturbance shall, immediately bring them to the attention of the appropriate authorities. Paleontological

remains of significant scientific interest do not include leaves, ferns, or dinosaur tracks commonly encountered during underground mining operations.

The cost of conducting the inventory, preparing reports, and carrying out mitigating measures shall be borne by the lessee.

6. If there is reason to believe that threatened or endangered (T&E) species of plants or animals, or migratory bird species of high Federal interest occur in the area the lessee shall be required to conduct an intensive field inventory of the area to be disturbed and/or impacted. The inventory shall be conducted by a qualified specialist and a report of findings will be prepared. A plan will be prepared making recommendations for the protection of these species or action necessary to mitigate the disturbance.

The cost of conducting the inventory, preparing reports, and carrying out mitigating measures shall be borne by the lessee.

7. The lessee shall be required to perform a study to secure adequate baseline data to quantify the existing surface resources on and adjacent to the lease area. Existing data may be used if such data is adequate for the intended purposes. The study shall be adequate to locate, quantify, and demonstrate the inter-relationship of the geology, topography, surface hydrology, vegetation, and wildlife. Baseline data will be established so that future programs of observation can be incorporated at regular intervals for comparison.

8. Powerlines used in conjunction with the mining of coal from this lease shall be constructed so as to provide adequate protection for raptors and other large birds. When feasible, powerlines will be located at least 100 yards from public roads.

9. The limited area available for mine facilities at the coal outcrop, steep topography, adverse winter weather, and physical limitations on the size and design of the access road, are factors which will determine the ultimate size of the surface area utilized for the mine. A site specific environmental analysis will be prepared for each new mine site development and for major modifications to existing developments to examine alternatives and mitigate conflicts.

10. Consideration will be given to site selection to reduce adverse visual impacts. Where alternative sites are available, and each alternative is technically feasible, the alternative involving the least damage to the scenery and other resources shall be selected. Permanent structures and facilities will be designed, and screening techniques employed, to reduce visual impacts, and where possible achieve a final landscape compatible with the natural surroundings. The creation of unusual, objectionable, or unnatural land forms and vegetative landscape features will be avoided.

11. The lessee shall be required to establish a monitoring system to locate, measure, and quantify the progressive and final effects of underground mining activities on the topographic surface, underground and surface hydrology and vegetation. The monitoring

system shall utilize techniques which will provide a continuing record of change over time and an analytical method for location and measurement of a number of points over the lease area. The monitoring shall incorporate and be an extension of the baseline data.

12. The lessee shall provide for the suppression and control of fugitive dust on haul roads and at coal handling and storage facilities. On Forest Development Roads (FDR), lessees may perform their share of road maintenance by a commensurate share agreement if a significant degree of traffic is generated that is not related to their activities.

13. Except at specifically approved locations, underground mining operations shall be conducted in such a manner so as to prevent surface subsidence that would: (1) cause the creation of hazardous conditions such as potential escarpment failure and landslides, (2) cause damage to existing surface structures, or (3) damage or alter the flow of perennial streams. The lessee shall provide specific measures for the protection of escarpments, and determine corrective measures to assure that hazardous conditions are not created.

14. In order to avoid surface disturbance on steep canyon slopes and to preclude the need for surface access, all surface breakouts for ventilation tunnels shall be constructed from inside the mine, except at specifically approved locations.

15. If removal of timber is required for clearing of construction sites, etc., such timber shall be removed in accordance with the regulations of the surface management agency.

16. The coal contained within, and authorized for mining under this lease, shall be extracted only by underground mining methods.

17. Existing Forest Service owned or permitted surface improvements will need to be protected, restored, or replaced to provide for the continuance of current land uses.

18. In order to protect big game wintering areas, elk calving and deer fawning areas, sagegrouse strutting areas, and other critical wildlife habitat and/or activities, specific surface uses outside the mine development area may be curtailed during specific periods of the year.

19. Support facilities, structures, equipment, and similar developments will be removed from the lease area within 2 years after the final termination of use of such facilities. This provision shall apply unless the requirement of Section 10 of the lease form is applicable. Disturbed areas and those areas previously occupied by such facilities will be stabilized and rehabilitated, drainages reestablished, and the areas returned to a premining land use.

20. The lessee at the conclusion of the mining operations, or at other times as surface disturbance related to mining may occur, will replace all damaged, disturbed, or displaced corner monuments (section corners, quarter corners, etc.) their accessories and

appendages (witness trees, bearing trees, etc.), or restore them to their original condition and location, or at other locations that meet the requirements of the rectangular surveying system. This work shall be conducted at the expense of the lessee, by a professional land surveyor registered in the State of Utah and to the standards and guidelines found in the manual of surveying instruction, U.S. Department of Interior.

21. The lessee at his expense will be responsible to replace any surface water identified for protection, that may be lost or adversely affected by mining operations, with water from an alternative source in sufficient quantity and quality to maintain existing riparian habitat, fishery habitat, livestock and wildlife use, or other land uses.

22. The lessee must comply with all the rules and regulations of the Secretary of Agriculture set forth at Title 36, Chapter II, of the Code of Federal Regulations governing the use and management of the National Forest System (NFS) when not inconsistent with the rights granted by the Secretary of the Interior in the lease. The Secretary of Agriculture's rules and regulations must be complied with for (1) all use and occupancy of the NFS prior to approval of a permit/operation plan by the Secretary of Interior, (2) uses of all existing improvements, such as Forest Development Roads, within and outside the area licensed, permitted or leased by the Secretary of Interior, and (3) use and occupancy of the NFS not authorized by a permit/operation plan approved by the Secretary of the Interior.

All matters related to this stipulation are to be addressed to:

Forest Supervisor
Manti-LaSal National Forest
599 West Price River Drive
Price, Utah 84501

Telephone No.: 801-637-2817

who is the authorized representative of the Secretary of Agriculture.

23. Notwithstanding the approval of a resource recovery and protection plan by the BLM, lessor reserves the right to seek damages against the operator/lessee in the event (i) the operator/lessee fails to achieve maximum economic recovery [as defined at 43 CFR §3480.0-5(21)] of the recoverable coal reserves or (ii) the operator/lessee is determined to have caused a wasting of recoverable coal reserves. Damages shall be measured on the basis of the royalty that would have been payable on the wasted or unrecovered coal.

The parties recognize that under an approved R2P2, conditions may require a modification by the operator/lessee of that plan. In the event a coal bed or portion thereof is not to be mined or is rendered unminable by the operation, the operator shall submit appropriate justification to obtain approval by the AO to leave such reserves unmined. Upon approval by the AO, such coal beds or portions thereof shall not be subject to

damages as described above. Further, nothing in this section shall prevent the operator/lessee from exercising its right to relinquish all or a portion of the lease as authorized by statute and regulation.

In the event the AO determines that the R2P2 as approved will not attain MER as the result of changed conditions, the AO will give proper notice to the operator/lessee as required under applicable regulations. The AO will order a modification if necessary, identifying additional reserves to be mined in order to attain MER. Upon a final administrative or judicial ruling upholding such an ordered modification, any reserves left unmined (wasted) under that plan will be subject to damages as described in the first paragraph under this section.

Subject to the right to appeal hereinafter set forth, payment of the value of the royalty on such unmined recoverable coal reserves shall become due and payable upon determination by the AO that the coal reserves have been rendered unminable or at such time that the lessee has demonstrated an unwillingness to extract the coal.

The BLM may enforce this provision either by issuing a written decision requiring payment of the MMS demand for such royalties, or by issuing a notice of non-compliance. A decision or notice of non-compliance issued by the lessor that payment is due under this stipulation is appealable as allowed by law.

24. Due to the uncertainty of the amount of recoverable coal tons in this modification, the lessee will pay the fair market value (FMV) for the coal resources mined in the area of Federal coal lease modification (UTU-64375) at the rate of \$0.25 per ton for the actual tonnage mined. Payment of FMV at the specified rate and tonnage mined will be on the schedule required for payment of production royalties to the Minerals Management Service (MMS). The lessee will clearly indicate which portion of the payment is for royalty and what is for lease bonus payment.

UNITED STATES
DEPARTMENT OF THE INTERIOR
BUREAU OF LAND MANAGEMENT

MODIFIED COAL LEASE

Serial No. UTU-64375

Date of Lease: October 1, 1990

The United States of America

PACIFICORP

Company or Lessee Name

(Signature of Lessee)

J. Brett Harvey

Vice President

(Title)

January 16, 1997

(Date)

By

(Signing Officer)

(Title)

(Date)

Title 18 U.S.C. Section 1001, makes it a crime for any person knowingly and willfully to make to any department or agency of the United States any false, fictitious or fraudulent statements or representations as to any matter within its jurisdiction.



United States Department of the Interior

BUREAU OF LAND MANAGEMENT

Utah State Office
P.O. Box 45155
Salt Lake City, UT 84145-0155

In Reply Refer To
3432
UTU-64375
(UT-932)

JAN 23 1997

DECISION

PacifiCorp
c/o Interwest Mining Company
One Utah Center, Suite 2000
201 South Main Street
Salt Lake City, Utah 84140-0020

Coal Lease
UTU-64375



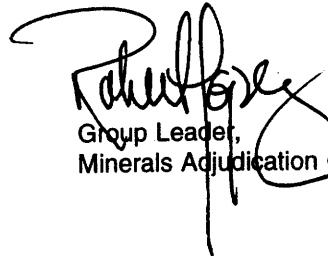
Bond Rider Accepted Coal Lease UTU-64375 Modified

Coal lease UTU-64375 is hereby modified effective February 8, 1997. All terms and conditions of the original lease are hereby made consistent with the laws, regulations, and lease terms applicable at the time of this modification.

A rider to coal lease bond 400 JV 3712 (BLM Bond No. UT0989) accepting coverage for the additional acreage was filed in this office on January 13, 1997. The rider was examined, found to be satisfactory, and accepted as of the date of filing.

Additional rental of \$268 to cover the estimated additional rental for the current rental year was submitted January 13, 1997. Rental in the amount of \$3.00 per acre, or a total of \$8,295 is due on October 1, 1997.

Within 30 days after the effective date of this lease modification, the lessee shall amend its modification to the Trail Mountain Logical Mining Unit, filed March 31, 1994, to include the 133.2 acres added to coal lease UTU-64375 by this modification. The modified land shall be segregated into another Federal coal lease should the lessee fail to file such amendment.


Group Leader,
Minerals Adjudication Group

Enclosures

Copy of Lease Modification
Copy of Rider

cc: D.W. JENSE
B. MORGAN
M. THALMAN
D. LAURISKI
C. POLLASTRO
C. SEMBORSKI

UNITED STATES
DEPARTMENT OF THE INTERIOR
BUREAU OF LAND MANAGEMENT

Serial No. UTU-64375

MODIFIED COAL LEASE

Date of Lease: October 1, 1990

PART I.

THIS MODIFIED COAL LEASE is entered into effective **February 8, 1997**, by and between the UNITED STATES OF AMERICA, hereinafter called the Lessor, through the Bureau of Land Management, and

PacifiCorp
One Utah Center, Suite 2000
201 South Main Street
Salt Lake City, Utah 84140-0020

hereinafter called Lessee.

This modified lease shall retain the effective date of October 1, 1990, of the original COAL LEASE UTU-64375, and is effective for a period of 20 years therefrom, and for so long thereafter as coal is produced in commercial quantities from the leased lands, subject to readjustment of lease terms at the end of the 20th lease year (**October 1, 2010**), and each 10-year period thereafter.

Sec. 1. This lease is issued pursuant and subject to the terms and provisions of the: (NOTE: Check the appropriate Act or Acts.)

XX Mineral Lands Leasing Act of 1920, as amended, 41 Stat. 437, 30 U.S.C. 181-287, hereinafter referred to as the Act;

 Mineral Leasing Act for Acquired Lands of 1947, 61 Stat. 913, 30 U.S.C. 351-359;

and to the regulations and formal orders of the Secretary of the Interior which are now or hereafter in force, when not inconsistent with the express and specific provisions herein.

Sec. 2. Lessee as the holder of Coal Lease UTU-64375, issued effective October 1, 1990, was granted the exclusive right and privilege to drill for, mine, extract, remove or otherwise process and dispose of the coal deposits in, upon, or under the lands described below as Tract 1.

The Lessor in consideration of fair market value, rents and royalties to be paid, and the conditions and covenants to be observed as herein set forth, hereby grants and leases to Lessee the exclusive right and privilege to drill for, mine, extract, remove, or otherwise process and dispose of the coal deposits in, upon, or under the lands described below as Tract 2.

Tract 1: T. 17 S., R. 6 E., SLM, Utah
Sec. 26, S2SW, W2SWSE;
Sec. 27, S2S2;
Sec. 34, all;
Sec. 35, lots 3, 4, W2SWNE,
S2NW, SW, W2W2SE.

T. 18 S., R. 6 E., SLM, Utah
Sec. 1, lots 1-8, S2N2, E2NESW,
E2NWNESE, N2NWNESE, N2NWSE;
Sec. 2, lots 1-8, S2N2, N2NESW, N2SWNESE,
SENESE, NWNESE, N2SWNESE, N2NWSE,
N2S2NWSE;
Sec. 3, lots 1,2,8, NESENE.
T. 18 S., R. 7 E., SLM, Utah
Sec. 6, lots 4-7, W2SENE, W2E2SW.

2,630.81 Acres

Tract 2:

T. 18 S., R. 6 E., SLM, Utah
Sec. 3, lot 3, E2 of lot 6, lot 7,
NESWNE, NWSENE, S2SENE.
133.2 Acres

TOTAL ACRES: 2,764.01

containing 2,764.01 acres, more or less, together with the right to construct such works, buildings, plants, structures, equipment and appliances and the right to use such on-lease rights-of-way which may be necessary and convenient in the exercise of the rights and privileges granted, subject to the conditions herein provided.

casualties not attributable to the Lessee. The Lessor, in the public interest, may suspend the condition of continued operation upon payment of advance royalties in accordance with the regulations in existence at the time of the suspension.

Part II. TERMS AND CONDITIONS

Sec. 1.(a) RENTAL RATE - Lessee shall pay Lessor rental annually and in advance for each acre or fraction thereof during the continuance of the lease at the rate of \$3.00 per acre for each lease year.

(b) RENTAL CREDITS - Rental shall not be credited against either production or advance royalties for any year.

Sec. 2.(a) PRODUCTION ROYALTIES - The royalty shall be 8 percent of the value of the coal as set forth in the regulations. Royalties are due to Lessor the final day of the month succeeding the calendar month in which the royalty obligation accrues.

(b) ADVANCE ROYALTIES - Upon request by the Lessee, the authorized officer may accept, for a total of not more than 10 years, the payment of advance royalties in lieu of continued operation, consistent with the regulations. The advance royalty shall be based on a percent of the value of a minimum number of tons determined in the manner established by the advance royalty regulations in effect at the time the Lessee requests approval to pay advance royalties in lieu of continued operation.

Sec. 3. BONDS - Lessee shall maintain in the proper office a lease bond in the amount of \$1,946,000. The authorized officer may require an increase in this amount when additional coverage is determined appropriate.

Sec. 4. DILIGENCE - This lease achieved diligent development November 30, 1991, and is subject to the conditions of continued operation. Continued operation may be excused when operations under the lease are interrupted by strikes, the elements, or

The Lessor reserves the power to assent to or order the suspension of the terms and conditions of this lease in accordance with, inter alia, Section 39 of the Mineral Leasing Act, 30 U.S.C. 209.

Sec. 5. LOGICAL MINING UNIT (LMU) - The lands contained in the original lease have been submitted as a modification to the LMU Trail Mountain UTU-73339, March 31, 1994. Within 30 days after the effective date of this lease modification, the Lessee shall amend its modification of the Trail Mountain Logical Mining Unit to include the 133.2 acres added to coal lease UTU-64375 by this modification. The modified land shall be segregated into another Federal coal lease should the Lessee fail to file such an amendment.

The stipulations established in an LMU approval in effect at the time of LMU approval or modification will supersede the relevant inconsistent terms of this lease so long as the lease remains committed to the LMU. If the LMU of which this lease is a part is dissolved, the lease shall then be subject to the lease terms which would have been applied if the lease had not been included in the LMU.

Sec. 6. DOCUMENTS, EVIDENCE AND INSPECTION - At such times and in such form as Lessor may prescribe, Lessee shall furnish detailed statements showing the amounts and quality of all products removed and sold from the lease, the proceeds therefrom, and the amount used for production purposes or unavoidably lost.

Lessee shall keep open at all reasonable times for the inspection of any duly authorized officer of Lessor, the leased premises and all surface and underground improvements, works, machinery, ore stockpiles, equipment, and all books, accounts,

maps, and records relative to operations, surveys, or investigations on or under the leased lands.

Lessee shall allow Lessor access to and copying of documents reasonably necessary to verify Lessee compliance with terms and conditions of the lease.

While this lease remains in effect, information obtained under this section shall be closed to inspection by the public in accordance with the Freedom of Information Action (5 U.S.C. 552).

Sec. 7. DAMAGES TO PROPERTY AND CONDUCT OF OPERATIONS - Lessee shall comply at its own expense with all reasonable orders of the Secretary, respecting diligent operations, prevention of waste, and protection of other resources.

Lessee shall not conduct exploration operations, other than casual use, without an approved exploration plan. All exploration plans prior to the commencement of mining operations within an approved mining permit area shall be submitted to the authorized officer.

Lessee shall carry on all operations in accordance with approved methods and practices as provided in the operating regulations, having due regard for the prevention of injury to life, health, or property, and prevention of waste, damage or degradation any land, air, water, cultural, biological, visual, and other resources, including mineral deposits and formations of mineral deposits not leased hereunder, and to other land uses or users. Lessee shall take measures deemed necessary by Lessor to accomplish the intent of this lease term. Such measures may include, but not limited to, modification to proposed siting or design of facilities, timing of operations, and specifications of interim and final reclamation procedures. Lessor reserves to itself the right to lease, sell, or otherwise dispose of the surface or other mineral deposits in the lands and the right to continue existing uses and to authorize future uses upon or in the leased lands, including issuing leases for mineral deposits not covered hereunder and approving easements or rights-of-way. Lessor shall condition such uses to prevent unnecessary or unreasonable interference with rights of Lessee as may be consistent with concepts of multiple use and multiple mineral development.

Sec. 8 PROTECTION OF DIVERSE INTERESTS, AND EQUAL OPPORTUNITY - Lessee shall: pay when due all taxes legally assessed and levied

under the law of the State or the United States; accord all employees complete freedom of purchase; pay all wages at least twice each month in lawful money of the United States; maintain a safe working environment in accordance with standard industry practices; restrict the workday to not more than 8 hours in any one day for underground workers, except in emergencies; and take measures necessary to protect the health and safety of the public. No person under the age of 16 years shall be employed in any mine below the surface. To the extent that laws of the State in which the lands are situated are more restrictive than the provisions in this paragraph, then the State laws apply.

Lessee will comply with all provisions of Executive Order No. 11246 of September 24, 1965, as amended, and the rules, regulations, and relevant orders of the Secretary of Labor. Neither Lessee nor Lessee's subcontractors shall maintain segregated facilities.

Sec. 9.(a) TRANSFERS

X This lease may be transferred in whole or in part to any person, association or corporation qualified to hold such lease interest.

— This lease may be transferred in whole or in part to another public body, or to a person who will mine the coal on behalf of, and for the use of, the public body or to a person who for the limited purpose of creating a security interest in favor of a lender agrees to be obligated to mine the coal on behalf of the public body.

— This lease may only be transferred in whole or in part to another small business qualified under 13 CFR 121.

Transfers of record title, working or royalty interest must be approved in accordance with the regulations.

(b) **RELINQUISHMENTS** - The Lessee may relinquish in writing at any time all rights under this lease or any portion thereof as provided in the regulations. Upon Lessor's acceptance of the relinquishment, Lessee shall be relieved of all future obligations under the lease or the relinquished portion thereof, whichever is applicable.

Sec. 10. DELIVERY OF PREMISES, REMOVAL OF MACHINERY, EQUIPMENT, ETC. - At such times as all portions of this lease are returned to Lessor, Lessee shall deliver up to Lessor the land leased, underground timbering, and such other supports and structures necessary for the preservation of the mine workings on the leased premises or deposits and place all workings in condition for suspension or abandonment. Within 180 days thereof, Lessee shall remove from the premises all other structures, machinery, equipment, tools, and materials that it elects to or as required by the authorized officer. Any such structures, machinery, equipment, tools, and materials remaining on the leased lands beyond 180 days, or approved extension thereof, shall become the property of the Lessor, but Lessee shall either remove any or all such property or shall continue to be liable for the cost of removal and disposal in the amount actually incurred by the Lessor. If the surface is owned by third parties, Lessor shall waive the requirement for removal, provided the third parties do not object to such waiver. Lessee shall, prior to the termination of bond liability or at any other time when required and in accordance with all applicable laws and regulations, reclaim all lands the surface of which has been disturbed, dispose of all debris or solid waste, repair the offsite and onsite damage caused by Lessee's activity or activities incidental thereto, and reclaim access roads or trails.

Sec. 11. PROCEEDINGS IN CASE OF DEFAULT - If Lessee fails to comply with applicable laws, existing regulations, or the terms, conditions and stipulations of this lease, and the noncompliance continues for 30 days after written notice thereof, this lease shall be subject to cancellation by the Lessor only by judicial proceedings. This provision shall not be construed to prevent the exercise by Lessor of any other legal and equitable remedy, including waiver of the default. Any such remedy or waiver shall not prevent later cancellation for the same default occurring at any other time.

Sec. 12. HEIRS AND SUCCESSORS - INTEREST - Each obligation of this lease shall extend to and be binding upon, and every benefit hereof shall inure to, the heirs, executors, administrators, successors, or assigns of the respective parties hereto.

Sec. 13. INDEMNIFICATION - Lessee shall indemnify and hold harmless the United States from any and all claims arising out of the Lessee's

activities and operations under this lease.

Sec. 14. SPECIAL STATUTES - This lease is subject to the Federal Water Pollution Control Act (33 U.S.C. 1151 - 1175); the Clean Air Act (42 U.S.C. 1857 et seq.), and to all other applicable laws pertaining to exploration activities, mining operations and reclamation, including the Surface Mining Control and Reclamation Act of 1977 (30 U.S.C. 1201 et seq.)

Sec. 15. SPECIAL STIPULATIONS -

See Attached Stipulations

1. The Regulatory Authority shall mean the State Regulatory Authority pursuant to a cooperative agreement approved under 30 CFR Part 745 or in the absence of a cooperative agreement, Office of Surface Mining. The authorized officer shall mean the State Director, Bureau of Land Management. The authorized officer of the Surface Management Agency shall mean the Forest Supervisor, Forest Service. Surface Management Agency for private surface is the Bureau of Land Management. For adjoining private lands with Federal minerals and which primarily involve National Forest Service issues, the Forest Service will have the lead for environmental analysis and, when necessary, documentation in an environmental assessment or environmental impact statement.

2. The authorized officers, of the Bureau of Land Management, Office of Surface Mining (Regulatory Authority), and the Surface Management Agency (Forest Service) respectively, shall coordinate, as practical, regulation of mining operations and associated activities on the lease area.

3. In accordance with Sec. 523(b) of the "Surface Mining Control and Reclamation Act of 1977," surface mining and reclamation operations conducted on this lease are to conform with the requirements of this Act and are subject to compliance with Office of Surface Mining Regulations, or as applicable, a Utah program equivalent approved under cooperative agreement in accordance with Sec. 523(c). The United States Government does not warrant that the entire tract will be susceptible to mining.

4. Federal Regulations 43 CFR 3400 pertaining to Coal Management make provisions for the Surface Management Agency, the surface of which is under the jurisdiction of any Federal agency other than the Department of Interior, to consent to leasing and to prescribe conditions to insure the use and protection of the lands. All or part of this lease contain lands the surface of which are managed by the United States Department of Agriculture, Forest Service Manti-LaSal National Forest.

The following stipulations pertain to the lessee responsibility for mining operations on the lease area and on adjacent areas as may be specifically designated on National Forest System lands.

5. Before undertaking activities that may disturb the surface of previously undisturbed leased lands, the lessee may be required to conduct a cultural resource inventory and a paleontological appraisal of the areas to be disturbed. These studies shall be conducted by qualified professional cultural resource specialists or qualified paleontologists, as appropriate, and a report prepared itemizing the findings. A plan will then be submitted making recommendations for the protection of, or measures to be taken to mitigate impacts for identified cultural or paleontological resources.

If cultural resources or paleontological remains (fossils) of significant scientific interest are discovered during operations under this lease, the lessee prior to disturbance shall, immediately bring them to the attention of the appropriate authorities. Paleontological

remains of significant scientific interest do not include leaves, ferns, or dinosaur tracks commonly encountered during underground mining operations.

The cost of conducting the inventory, preparing reports, and carrying out mitigating measures shall be borne by the lessee.

6. If there is reason to believe that threatened or endangered (T&E) species of plants or animals, or migratory bird species of high Federal interest occur in the area the lessee shall be required to conduct an intensive field inventory of the area to be disturbed and/or impacted. The inventory shall be conducted by a qualified specialist and a report of findings will be prepared. A plan will be prepared making recommendations for the protection of these species or action necessary to mitigate the disturbance.

The cost of conducting the inventory, preparing reports, and carrying out mitigating measures shall be borne by the lessee.

7. The lessee shall be required to perform a study to secure adequate baseline data to quantify the existing surface resources on and adjacent to the lease area. Existing data may be used if such data is adequate for the intended purposes. The study shall be adequate to locate, quantify, and demonstrate the inter-relationship of the geology, topography, surface hydrology, vegetation, and wildlife. Baseline data will be established so that future programs of observation can be incorporated at regular intervals for comparison.

8. Powerlines used in conjunction with the mining of coal from this lease shall be constructed so as to provide adequate protection for raptors and other large birds. When feasible, powerlines will be located at least 100 yards from public roads.

9. The limited area available for mine facilities at the coal outcrop, steep topography, adverse winter weather, and physical limitations on the size and design of the access road, are factors which will determine the ultimate size of the surface area utilized for the mine. A site specific environmental analysis will be prepared for each new mine site development and for major modifications to existing developments to examine alternatives and mitigate conflicts.

10. Consideration will be given to site selection to reduce adverse visual impacts. Where alternative sites are available, and each alternative is technically feasible, the alternative involving the least damage to the scenery and other resources shall be selected. Permanent structures and facilities will be designed, and screening techniques employed, to reduce visual impacts, and where possible achieve a final landscape compatible with the natural surroundings. The creation of unusual, objectionable, or unnatural land forms and vegetative landscape features will be avoided.

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system shall utilize techniques which will provide a continuing record of change over time and an analytical method for location and measurement of a number of points over the lease area. The monitoring shall incorporate and be an extension of the baseline data.

12. The lessee shall provide for the suppression and control of fugitive dust on haul roads and at coal handling and storage facilities. On Forest Development Roads (FDR), lessees may perform their share of road maintenance by a commensurate share agreement if a significant degree of traffic is generated that is not related to their activities.

13. Except at specifically approved locations, underground mining operations shall be conducted in such a manner so as to prevent surface subsidence that would: (1) cause the creation of hazardous conditions such as potential escarpment failure and landslides, (2) cause damage to existing surface structures, or (3) damage or alter the flow of perennial streams. The lessee shall provide specific measures for the protection of escarpments, and determine corrective measures to assure that hazardous conditions are not created.

14. In order to avoid surface disturbance on steep canyon slopes and to preclude the need for surface access, all surface breakouts for ventilation tunnels shall be constructed from inside the mine, except at specifically approved locations.

15. If removal of timber is required for clearing of construction sites, etc., such timber shall be removed in accordance with the regulations of the surface management agency.

16. The coal contained within, and authorized for mining under this lease, shall be extracted only by underground mining methods.

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18. In order to protect big game wintering areas, elk calving and deer fawning areas, sagegrouse strutting areas, and other critical wildlife habitat and/or activities, specific surface uses outside the mine development area may be curtailed during specific periods of the year.

19. Support facilities, structures, equipment, and similar developments will be removed from the lease area within 2 years after the final termination of use of such facilities. This provision shall apply unless the requirement of Section 10 of the lease form is applicable. Disturbed areas and those areas previously occupied by such facilities will be stabilized and rehabilitated, drainages reestablished, and the areas returned to a premining land use.

20. The lessee at the conclusion of the mining operations, or at other times as surface disturbance related to mining may occur, will replace all damaged, disturbed, or displaced corner monuments (section corners, quarter corners, etc.) their accessories and

appendages (witness trees, bearing trees, etc.), or restore them to their original condition and location, or at other locations that meet the requirements of the rectangular surveying system. This work shall be conducted at the expense of the lessee, by a professional land surveyor registered in the State of Utah and to the standards and guidelines found in the manual of surveying instruction, U.S. Department of Interior.

21. The lessee at his expense will be responsible to replace any surface water identified for protection, that may be lost or adversely affected by mining operations, with water from an alternative source in sufficient quantity and quality to maintain existing riparian habitat, fishery habitat, livestock and wildlife use, or other land uses.

22. The lessee must comply with all the rules and regulations of the Secretary of Agriculture set forth at Title 36, Chapter II, of the Code of Federal Regulations governing the use and management of the National Forest System (NFS) when not inconsistent with the rights granted by the Secretary of the Interior in the lease. The Secretary of Agriculture's rules and regulations must be complied with for (1) all use and occupancy of the NFS prior to approval of a permit/operation plan by the Secretary of Interior, (2) uses of all existing improvements, such as Forest Development Roads, within and outside the area licensed, permitted or leased by the Secretary of Interior, and (3) use and occupancy of the NFS not authorized by a permit/operation plan approved by the Secretary of the Interior.

All matters related to this stipulation are to be addressed to:

Forest Supervisor
Manti-LaSal National Forest
599 West Price River Drive
Price, Utah 84501

Telephone No.: 801-637-2817

who is the authorized representative of the Secretary of Agriculture.

23. Notwithstanding the approval of a resource recovery and protection plan by the BLM, lessor reserves the right to seek damages against the operator/lessee in the event (i) the operator/lessee fails to achieve maximum economic recovery [as defined at 43 CFR §3480.0-5(21)] of the recoverable coal reserves or (ii) the operator/lessee is determined to have caused a wasting of recoverable coal reserves. Damages shall be measured on the basis of the royalty that would have been payable on the wasted or unrecovered coal.

The parties recognize that under an approved R2P2, conditions may require a modification by the operator/lessee of that plan. In the event a coal bed or portion thereof is not to be mined or is rendered unminable by the operation, the operator shall submit appropriate justification to obtain approval by the AO to leave such reserves unmined. Upon approval by the AO, such coal beds or portions thereof shall not be subject to

damages as described above. Further, nothing in this section shall prevent the operator/lessee from exercising its right to relinquish all or a portion of the lease as authorized by statute and regulation.

In the event the AO determines that the R2P2 as approved will not attain MER as the result of changed conditions, the AO will give proper notice to the operator/lessee as required under applicable regulations. The AO will order a modification if necessary, identifying additional reserves to be mined in order to attain MER. Upon a final administrative or judicial ruling upholding such an ordered modification, any reserves left unmined (wasted) under that plan will be subject to damages as described in the first paragraph under this section.

Subject to the right to appeal hereinafter set forth, payment of the value of the royalty on such unmined recoverable coal reserves shall become due and payable upon determination by the AO that the coal reserves have been rendered unminable or at such time that the lessee has demonstrated an unwillingness to extract the coal.

The BLM may enforce this provision either by issuing a written decision requiring payment of the MMS demand for such royalties, or by issuing a notice of non-compliance. A decision or notice of non-compliance issued by the lessor that payment is due under this stipulation is appealable as allowed by law.

24. Due to the uncertainty of the amount of recoverable coal tons in this modification, the lessee will pay the fair market value (FMV) for the coal resources mined in the area of Federal coal lease modification (UTU-64375) at the rate of \$0.25 per ton for the actual tonnage mined. Payment of FMV at the specified rate and tonnage mined will be on the schedule required for payment of production royalties to the Minerals Management Service (MMS). The lessee will clearly indicate which portion of the payment is for royalty and what is for lease bonus payment.

UNITED STATES
DEPARTMENT OF THE INTERIOR
BUREAU OF LAND MANAGEMENT

MODIFIED COAL LEASE

Serial No. **UTU-64375**

Date of Lease: October 1, 1990

The United States of America

PACIFICORP

Company or Lessee Name

(Signature of Lessee)

J. Brett Harvey

Vice President

(Title)

January 16, 1997

(Date)

By

(Signing Officer)

**Group Leader
Minerals Adjudication Group**

(Title)

JAN 23 1997

(Date)

Title 18 U.S.C. Section 1001, makes it a crime for any person knowingly and willfully to make to any department or agency of the United States any false, fictitious or fraudulent statements or representations as to any matter within its jurisdiction.

BOND NUMBER: 400 JV 3712

UNDER LEASE FOR MINING COAL DEPOSITS

SERIAL NO. UTU-64375

RIDER

To be attached to Bond No. 400 JV 3712 issued by

ST. PAUL FIRE AND MARINE INSURANCE COMPANY

(As Surety) in the amount of ONE MILLION NINE HUNDRED FORTY-SIX THOUSAND AND NO/100

(\$ 1,946,000.00)

Dollars, effective the 1st day of July, 19 94

ON BEHALF OF PACIFICORP

IN FAVOR OF UNITED STATES OF AMERICA (U.S.D.I. BUREAU OF LAND MANAGEMENT)

In consideration of the premium charged for the attached bond, it is mutually understood and agreed by the Principal and the Surety that: Coal Lease UTU-^{sure}64375 shall be modified to include the following described lands in Emery County, Utah:

T. 18 S. R. 6E., SLM, UT
Sec. 3, lot 3, E2 of lot 6, lot 7,
NESWNE, NWSENE, S2SENE.

Containing 133.2 acres

All other items, limitations and conditions of said bond except as herein expressly modified shall remain unchanged.

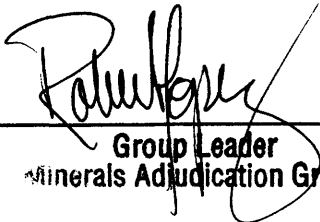
This rider shall be effective as of the 11th day of December, 19 96

Signed, sealed and dated this the 8th day of January, 19 97

U.S.D.I. BUREAU OF LAND MANAGEMENT, Obligor

Date JAN 13 1997

Accepted:


Group Leader
Minerals Adjudication Group

Bond 22a
B-SUR-752
SG-2013/EP 8/90

PACIFICORP

Principal

BY:


J. Brett Harvey

Vice President

ST. PAUL FIRE AND MARINE INSURANCE COMPANY

Surety

BY:


Muriel M. van Veen

Attorney-in-Fact

EXECUTED IN 3 COUNTERPARTS

PRINTED IN U.S.A.



United States Department of the Interior

BUREAU OF LAND MANAGEMENT

Utah State Office
P.O. Box 45155
Salt Lake City, UT 84145-0155



In Reply Refer To
3431
UTU-75535
(UT-932)

FEB 21 1997

DECISION

PacifiCorp	:	Special-Use Permit
c/o Interwest Mining Company	:	UTU-75535
One Utah Center, Suite 2000	:	
Salt Lake City, Utah 84140-2000	:	

Special-Use Permit Terminated

On January 10, 1997, this office issued a special-use permit (UTU-75535) for the severance of coal in the following land description:

T. 18 S., R. 6 E., SLM, UT
Sec. 3, E2 of lot 6, lots 3,7, NESWNE,
NWSENE, S2SENE.

133.20 acres

Emery County

The permit granted PacifiCorp approval for severance and removal of coal in accordance with 43 CFR 3432. The terms and conditions of the permit stated it would terminate with the issuance of a lease modification. A lease modification for lease UTU-64375 was issued effective February 8, 1997, for the above land description. Therefore, special-use permit UTU-75535 terminated February 8, 1997.

BLM will calculate the amount of coal removed under the special-use permit based on volumetric calculations and provide one bill to the company. Payment of the fair market value of the coal shall be made within 30 days of receipt of the billing statement to Bureau of Land Management, Utah State Office, P.O. Box 45155, Salt Lake City, Utah 84145-0155. The company will indicate that the payment is for casefile UTU-75535.

This decision may be appealed to the Interior Board of Land Appeals, Office of the Secretary, in accordance with the regulations contained in 43 CFR, Part 4, and the enclosed Form 1842-1. If an appeal is taken, your notice of appeal must be filed in this office (at the above address) within 30 days from receipt of this decision. The appellant has the burden of showing that the decision appealed from is in error.

If you wish to file a petition (pursuant to regulation 43 CFR 4.21) (58 FR 4939, January 19, 1993)

cc: D.W. JENSE, D. LAURISKI, C. POLLASTRO, L. LAFRENTZ, C. SEMBORSKI, B. MORRIS, M. THALMAN
S. CHAD

(request) for a stay (suspension) of the effectiveness of this decision during the time that your appeal is being reviewed by the Board, the petition for a stay must accompany your notice of appeal. A petition for a stay is required to show sufficient justification based on the standards listed below. Copies of the notice of appeal and petition for a stay **must** also be submitted to each party named in this decision and to the Interior Board of Land Appeals and to the appropriate Office of the Solicitor (see 43 CFR 4.413) at the same time the original documents are filed in this office. If you request a stay, you have the burden of proof to demonstrate that a stay should be granted.

Standards for Obtaining a Stay

Except as otherwise provided by law or other pertinent regulation, a petition for a stay of a decision pending appeal shall show sufficient justification based on the following standards:

- (1) The relative harm to the parties if the stay is granted or denied,
- (2) The likelihood of the appellant's success of the merits,
- (3) The likelihood of immediate and irreparable harm if the stay is not granted,
and
- (4) Whether the public interest favors granting the stay.



State Director

Enclosure

Form 1842-1

cc: Manti-LaSal National Forest
Price Coal Office

UNITED STATES
DEPARTMENT OF THE INTERIOR
BUREAU OF LAND MANAGEMENT

INFORMATION ON TAKING APPEALS TO THE BOARD OF LAND APPEALS

DO NOT APPEAL UNLESS

1. This decision is adverse to you,
AND
2. You believe it is incorrect

IF YOU APPEAL, THE FOLLOWING PROCEDURES MUST BE FOLLOWED

1. NOTICE OF APPEAL Within 30 days file a *Notice of Appeal* in the office which issued this decision (see 43 CFR Secs. 4.411 and 4.413). You may state your reasons for appealing, if you desire.
2. WHERE TO FILE
NOTICE OF APPEAL State Director, Utah
Bureau of Land Management
Utah State Office
P. O. Box 45155
Salt Lake City, Utah 84145-0155

SOLICITOR
ALSO COPY TO Regional Solicitor
Department of the Interior
Federal Building, Room 6201
Salt Lake City, Utah 84138
3. STATEMENT OF REASONS . . . Within 30 days after filing the *Notice of Appeal*, file a complete statement of the reasons why you are appealing. This must be filed with the United States Department of the Interior, Office of the Secretary, Board of Land Appeals, 4015 Wilson Blvd., Arlington, Virginia 22203 (see 43 CFR Sec. 4.412 and 4.413). If you fully stated your reasons for appealing when filing the *Notice of Appeal*, no additional statement is necessary.

SOLICITOR
ALSO COPY TO Regional Solicitor
Department of the Interior
Federal Building, Room 6201
Salt Lake City, Utah 84138
4. ADVERSE PARTIES Within 15 days after each document is filed, each adverse party named in the decision and the Regional Solicitor or Field Solicitor having jurisdiction over the State in which the appeal arose must be served with a copy of: (a) the *Notice of Appeal*, (b) the Statement of Reasons, and (c) any other documents filed (see 43 CFR Sec. 4.413). Service will be made upon the Associate Solicitor, Division of Energy and Resources, Washington, D.C. 20240, instead of the Field or Regional Solicitor when appeals are taken from decisions of the Director (WO-100).
5. PROOF OF SERVICE Within 15 days after any document is served on an adverse party, file proof of that service with the United States Department of the Interior, Office of the Secretary, Board of Land Appeals, 4015 Wilson Blvd., Arlington, Virginia 22203. This may consist of a certified or registered mail "Return Receipt Card" signed by the adverse party (see 43 CFR Sec. 4.401(c)(2)).

Unless these procedures are followed your appeal will be subject to dismissal (see 43 CFR Sec. 4.402). Be certain that all communications are identified by serial number of the case being appealed

NOTE: A document is not filed until it is actually received in the proper office (see 43 CFR Sec. 4.401(a))

APPENDIX D

Mine Maps

as required under R645-301-525.270.

CONTENTS

1997 Cottonwood Mine Production Map (No Production)

1997 Deer Creek Mine Production Map

1997 Trail Mountain Mine Production Map

1997 Beehive and Littledove Mines Map (No Production)

1997 Deseret Mine Map (No Production)

APPENDIX E

Other Information

in accordance with the requirements of R645-301 and R645-302.

CONTENTS

Coal Mining Production 1997

All Mines UPDES Expiration Dates

Refuse, Roof, Floor and Mid-Seam Data Analysis Reports (Deer Creek)

Cottonwood Mine WRS Rock/Coal Ratio Analysis Report

Cottonwood Sediment Pond Analysis Report

Proposed Cottonwood Fan Portal Soil Analysis Report

Deer Creek WRS Analysis Report

Deer Creek Sediment Pond Analysis Report

Trail Mountain Sediment Pond Analysis Report

Des-Bee-Dove Sediment Pond Analysis Report (See Cottonwood Sed. Pond Report)

COAL MINING AND RECLAMATION OPERATIONS FOR 1997

(Must be submitted to the Division by March 31, 1997)

**State of Utah
Department of Natural Resources
Division of Oil, Gas and Mining
1594 West North Temple, Suite 1210
Box 145801
Salt Lake City, Utah 84114-5289
(801) 538-5289**

Permittee:	PacifiCorp
Mine Name:	Trail Mountain
Mailing Address:	Box 310, Huntington Utah 84528
Company Representative:	Charles A. Semborski
Resident Agent:	Charles A. Semborski
Permit Number:	ACT/015/009
MSHA ID Number:	42-01211
Date of Initial Permanent Program Permit:	May 11, 1978
Date of Permit Renewal:	February 21, 1995
Quantity of Coal Mined (Tonnage) 1997:	3,927,569.45

COAL MINING AND RECLAMATION OPERATIONS FOR 1997

(Must be submitted to the Division by March 31, 1997)

**State of Utah
Department of Natural Resources
Division of Oil, Gas and Mining
1594 West North Temple, Suite 1210
Box 145801
Salt Lake City, Utah 84114-5801**

Permittee:	PacifiCorp
Mine Name:	Deer Creek
Mailing Address:	Box 310 Huntington, Utah 84528
Company Representative:	Charles A. Semborski
Resident Agent:	Charles A. Semborski
Permit Number:	ACT/015/018
MSHA ID Number:	42-00121
Date of Initial Permanent Program Permit:	February 7, 1986
Date of Permit Renewal:	February 6, 1996
Quantity of Coal Mined (Tonnage) 1997	4,479,705.84

COAL MINING AND RECLAMATION OPERATIONS FOR 1997

(Must be submitted to the Division by March 31, 1998)

**State of Utah
Department of Natural Resources
Division of Oil, Gas and Mining
1594 West North Temple, Suite 1210
Box 145801
Salt Lake City, Utah 84114-5289
(801) 538-5289**

Permittee:	PacifiCorp
Mine Name:	Trail Mountain
Mailing Address:	Box 310, Huntington Utah 84528
Company Representative:	Charles A. Semborski
Resident Agent:	Charles A. Semborski
Permit Number:	ACT/015/009
MSHA ID Number:	42-01211
Date of Initial Permanent Program Permit:	May 11, 1978
Date of Permit Renewal:	February 21, 1995
Quantity of Coal Mined (Tonnage) 1997:	3,927,569.45

COAL MINING AND RECLAMATION OPERATIONS FOR 1997

(Must be submitted to the Division by March 31, 1998)

**State of Utah
Department of Natural Resources
Division of Oil, Gas and Mining
1594 West North Temple, Suite 1210
Box 145801
Salt Lake City, Utah 84114-5801**

Permittee:	PacifiCorp
Mine Name:	Deer Creek
Mailing Address:	Box 310 Huntington, Utah 84528
Company Representative:	Charles A. Semborski
Resident Agent:	Charles A. Semborski
Permit Number:	ACT/015/018
MSHA ID Number:	42-00121
Date of Initial Permanent Program Permit:	February 7, 1986
Date of Permit Renewal:	February 6, 1996
Quantity of Coal Mined (Tonnage) 1997	4,479,705.84

COAL MINING AND RECLAMATION OPERATIONS FOR 1997

(Must be Submitted to the Division by March 31, 1998)

**State of Utah
Department of Natural Resources
Division of Oil, Gas and Mining
1594 West North Temple, Suite 1210
Box 145801
Salt Lake City, Utah 84114-5801
(801) 538-5289**

Permittee:	PacifiCorp
Mine Name:	Des-Bee-Dove
Mailing Address:	Box 310, Huntington, Utah 84528
Company Representative:	Charles A. Semborski
Resident Agent:	Charles A. Semborski
Permit Number:	ACT/015/017
MSHA ID Number:	Deseret 42-00988, Beehive 42-0082 Little Dove 42-01393
Date of Initial Permanent Program Permit:	August 29, 1985
Date of Permit Renewal:	September 7, 1995
Quantity of Coal (Tonnage) 1997	0.00

COAL MINING AND RECLAMATION OPERATIONS FOR 1997

(Must be submitted to the Division by March 31, 1998)

**State of Utah
Department of Natural Resources
Division of Oil, Gas and Mining
1594 West North Temple, Suite 1210
Box 145801
Salt Lake City, Utah 84114-5801
(801) 538-5289**

Permittee:	PacifiCorp
Mine Name:	Cottonwood/Wilberg
Mailing Address:	Box 310, Huntington, Utah 84528
Company Representative:	Charles A. Semborski
Resident Agent:	Charles A. Semborski
Permit Number:	ACT/015/019
MSHA ID Number:	Wilberg 42-00080, Cottonwood 42-01944
Date of Initial Permanent Program Permit:	July 6, 1984
Date of Permit Renewal:	July 6, 1994
Quantity of Coal Mined (Tonnage) 1997	0.00

One Utah Center, Suite 2000
Salt Lake City, Utah 84140-0020
(801) 220-4616 • FAX (801) 220-4725



December 19, 1997

A Subsidiary of PacifiCorp

Department of Environmental Quality
Attention Steve McNeal
Division of Water Quality
288 North 1460 West
P.O. Box 144870
Salt Lake City, UT 84114-4870

*Rodger C. Fry
Exploration Administrator
(801) 220-4610
FAX (801) 220-4578*

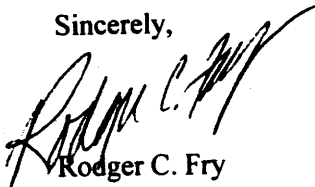
RE: Trail Mountain UPDES UTG040003-002 (Trail Mountain Mine Discharge)
Request for conversion from a general to an individual permit

Dear Mr. McNeal:

Trail Mountain Mine is permitted under a general permit with the Total Dissolved Solids limitation of 2,000 lbs/day for both the sediment pond and mine discharge. As we discussed recently, interception of groundwater has steadily increased as mining has proceeded to the west. Trail Mountain Mine discharge (UTG040003-002) has remained in compliance until the month of November. Mine discharge was sampled November 13, 1997 and the analysis was received on December 19, 1997 with a reported Total Dissolved Solids value of 930 mg/l. The total discharge volume combined with Total Dissolved Solids value exceeded the daily maximum limitation of 2000 lbs/day. PacifiCorp hereby requests that the Trail Mountain Mine UPDES General Permit UTG040003, which expires on April 30, 1998, be converted from a General to Site Specific/Individual Permit to allow intercepted groundwater to be discharged based on the Total Dissolved Solids instead of the current tonnage limit. The attached table details the quantity and quality of the intercepted groundwater. Even though the data is limited, intercepted groundwater from the Trail Mountain Mine complex is similar to the mines operated in the adjacent East Mountain properties, Deer Creek and Cottonwood/Wilberg mines.

If you have any questions with regard to this request, please contact Chuck Semborski at (435) 687-4720.

Sincerely,



Rodger C. Fry

RCF/CAS/sh
Attachment

cc: Chuck Semborski
Carl Pollastro
Dennis Oakley

B:\TMDREQ.D97

STATE OF UTAH
DIVISION OF WATER QUALITY
DEPARTMENT OF ENVIRONMENTAL QUALITY
SALT LAKE CITY, UTAH

AUTHORIZATION TO DISCHARGE UNDER THE
UTAH POLLUTANT DISCHARGE ELIMINATION SYSTEM
(UPDES)

GENERAL PERMIT FOR COAL MINING

In compliance with provisions of the *Utah Water Quality Act, Title 19, Chapter 5, Utah Code Annotated ("UCA") 1953, as amended (the "Act")*,

PacifiCorp-Trail Mountain Mine located approximately 8 miles northwest of Orangeville, Utah as identified in the Notice of Intent, application UTG040003 is authorized to discharge at outfalls located at latitude 39°18'32" and longitude 111°10'57",

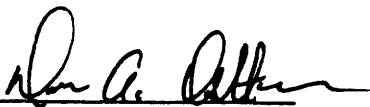
to Cottonwood Creek

in accordance with discharge point(s), effluent limitations, monitoring requirements and other conditions set forth herein.

This permit shall become effective on July 1, 1993.

This general permit and the authorization to discharge shall expire at midnight, April 30, 1998.

Signed this 25th day of June, 1993.



Authorized Permitting Official
Executive Secretary
Utah Water Quality Board

STATE OF UTAH
DIVISION OF WATER QUALITY
DEPARTMENT OF ENVIRONMENTAL QUALITY
SALT LAKE CITY, UTAH

AUTHORIZATION TO DISCHARGE UNDER THE
UTAH POLLUTANT DISCHARGE ELIMINATION SYSTEM
(UPDES)

In compliance with provisions of the *Utah Water Quality Act, Title 19, Chapter 5, Utah Code Annotated ("UCA") 1953, as amended* (the "Act"),

PacifiCorp-Deer Creek Coal Mine

is hereby authorized to discharge from its facility located approximately eight (8) miles northwest of Huntington In Emery County, Utah, with the outfalls:

001 located at latitude **39°21'36"** and longitude **111°06'35"**,

002 located at latitude **39°21'29"** and longitude **111°06'57"**,

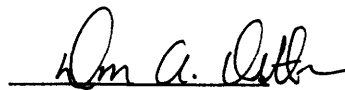
to receiving waters named **Deer Creek**

in accordance with discharge points, effluent limitations, monitoring requirements and other conditions set forth herein.

This permit shall become effective on December 1, 1997

This permit and the authorization to discharge shall expire at midnight,
November 30, 2002.

Signed this 21st day of November, 1997


Authorized Permitting Official
Executive Secretary
Utah Water Quality Board

STATE OF UTAH
DIVISION OF WATER QUALITY
DEPARTMENT OF ENVIRONMENTAL QUALITY
SALT LAKE CITY, UTAH

AUTHORIZATION TO DISCHARGE UNDER THE
UTAH POLLUTANT DISCHARGE ELIMINATION SYSTEM
(UPDES)

GENERAL PERMIT FOR COAL MINING

In compliance with provisions of the *Utah Water Quality Act, Title 19, Chapter 5, Utah Code Annotated ("UCA") 1953, as amended* (the "Act"),

PacifiCorp Des-Bee-Dove Coal Mine

located seven (7) miles northeast of Castle Dale, Utah as identified in the application
UTG040022 is authorized to discharge from outfall 001
at latitude **39°18'06"** and longitude **111°05'40"**,

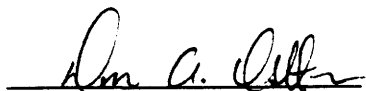
to receiving waters named Grimes Wash

in accordance with discharge point(s), effluent limitations, monitoring requirements and other conditions set forth herein.

This permit shall become effective on November 1, 1997.

This general permit and the authorization to discharge shall expire at midnight, April 30, 1998.

Signed this 10th day of July, 1997.


Authorized Permitting Official
Executive Secretary
Utah Water Quality Board

STATE OF UTAH
DIVISION OF WATER QUALITY
DEPARTMENT OF ENVIRONMENTAL QUALITY
SALT LAKE CITY, UTAH

AUTHORIZATION TO DISCHARGE UNDER THE
UTAH POLLUTANT DISCHARGE ELIMINATION SYSTEM
(UPDES)

In compliance with provisions of the *Utah Water Quality Act, Title 19, Chapter 5, Utah Code Annotated ("UCA") 1953, as amended* (the "Act"),

PacifiCorp-Wilberg Mine

is hereby authorized to discharge from its facility located approximately 8 miles northwest of Orangeville In Emery County, Utah, with the outfalls:

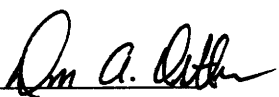
- 001 located at latitude **39°19'14"** and longitude **111°07'20"**,
- 002 located at latitude **39°18'56"** and longitude **111°11'15"**,
- 003 located at latitude **39°19'07"** and longitude **111°07'13"**,
- 004 located at latitude **39°18'43"** and longitude **111°10'35"**,
- 005 located at latitude **39°17'43"** and longitude **111°07'18"**,

to receiving waters named **Grimes Wash and Cottonwood Creek**
in accordance with discharge points, effluent limitations, monitoring requirements
and other conditions set forth herein.

This permit shall become effective on November 1, 1997

This permit and the authorization to discharge shall expire at midnight, October 31, 2002.

Signed this 24th day of October, 1997


Authorized Permitting Official
Executive Secretary
Utah Water Quality Board

SECTION E, REFUSE, ROOF, FLOOR AND MID-SEAM DATA

1. Samples were collected at the Cottonwood/Wilberg/Des-Bee-Dove, Trail Mtn. Waste Rock Storage Facility, Cottonwood Mine, Deer Creek Waste Rock Storage Facility, Deer Creek Mine.
2. Samples were collected in accordance with procedures outlined in the Cottonwood/Wilberg Waste Rock Storage Facility Volume, Chapter II, pages 2-12.1 through 2-12.2 and the Deer Creek Waste Rock Storage Facility Volume, Chapter VII, pages 7-4 through 7-5.

Waste rock soil samples were collected in accordance with the Cottonwood Permit, Appendix VII, page 13.

Coal:Rock ratio samples were collected in accordance with procedures outlined in the Cottonwood/Wilberg Waste Rock Storage Facility Volume, Chapter II, pages 2-13 and 2-14.

3. Please refer to the attached laboratory analyses. All parameters were analyzed according to the Division's **"GUIDELINES FOR MANAGEMENT OF TOPSOIL AND OVERBURDEN"** (Refuse, Roof, Floor, and Mid-Seam) or the **"TITLE V COAL PROGRAM POLICY FOR DISPOSAL OF SEDIMENT POND WASTE"**.
4. All analyzed parameters fall in the "acceptable" range of the Division's guidelines with the exception of the following:

<u>LAB NO.</u>	<u>LOCATION</u>	<u>UNACCEPTABLE PARAMETER</u>
COTTONWOOD MINE		
140612	CTW0397 WRS Refuse Pile	SAR
140613	CTW0497 WRS Refuse Pile	SAR
148638	CTW11/1297-Sediment Pond	*SAR-Org.Carbon-Sel
148639	CTW13/1497-Sed. Pond	*Org.Carbon-Sel.
TRAIL MOUNTAIN MINE		
149910	TR0197 Sed. Pond	Or. Car, Selenium
DEER CREEK MINE		
139239	DC0197 WRS Refuse Pile	pH, EC, SAR, Selenium
139241	DC0397 WRS Refuse Pile	EC, SAR,

DEER CREEK MINE CONT.

140941	DC1097 WRS Refuse Pile	pH,
140942	DC1197 WRS Refuse Pile	pH, EC, SAR
148070	DC1597 Sed.Pond	*Or.Car, Sel.

DES-BEE-DOVE MINE

148640 DBD15/1697-Sediment Pond *Sel.-

* Sediment pond samples
** In-mine sample

The refuse/sediment pond material will be covered by 4' of suitable material for the vegetative root zone.

IN-SEAM SAMPLES

January 7, 1998

Mr. Richard Northrup
Energy West
P.O. Box 310
Huntington, Utah 84528

Dear Mr. Northrup:

Enclosed are the results for the soil analysis for the samples our laboratory received on December 12, 1997. The analyses were completed according to methods described in USDA Handbook 60 and the American Society of Agronomy monographs.

We have centralized our invoicing. All invoices are mailed separately from the report.

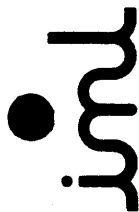
Feel free to contact me at your convenience if you have any questions or concerns.

Sincerely,



Joey Sheeley
Mining Soils

xc: File
Encl.



Inter-Mountain Laboratories, Inc.

1633 Terra Avenue

Sheridan, Wyoming 82801

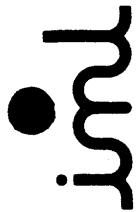
Tel. (307) 672-8945

ENERGY WEST MINING COMPANY
HUNTINGTON, UTAH
MINE: DEER CREEK

January 7, 1998

Page 1 of 3

Lab No.	Location	Depths	pH	EC mmhos/cm @ 25°C	Satur- ation %	Calcium meq/l	Magnesium meq/l	Sodium meq/l	SAR	Coarse Fragments %	Sand %	Silt %	Clay %	Texture
149876	DC 1697		7.8	0.73	23.0	3.19	3.15	0.87	0.49	0.0	84.0	7.0	9.0	LOAMY SAND
149877	DC 1797		8.1	0.46	32.2	0.52	0.58	3.29	4.43	27.1	69.0	12.0	19.0	SANDY LOAM
149878	DC 1897		8.1	0.68	24.8	0.86	0.74	5.30	5.92	65.4	66.0	15.0	19.0	SANDY LOAM
149879	DC 1997		8.0	0.48	23.3	1.32	1.19	1.31	1.17	64.4	28.0	41.0	31.0	CLAY LOAM
149880	DC 2097		7.8	0.87	52.1	1.39	0.77	6.12	5.88	0.0	92.0	3.0	5.0	SAND



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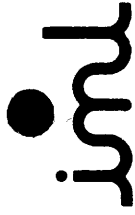
January 7, 1998

Page 2 of 3

ENERGY WEST MINING COMPANY
HUNTINGTON, UTAH
MINE: DEER CREEK

Lab No.	Location	Depths	Carbonate %	Total Sulfur %	I.S. AB t/1000t	Neut. Pot. t/1000t	I.S. ABP t/1000t	Sulfate Sulfur %	Pyritic Sulfur %	Organic Sulfur %	PyrS	
											AB t/1000t	ABP t/1000t
149876	DC 1697		18.2	0.06	1.87	165.	163.					
149877	DC 1797		1.6	0.34	10.6	19.6	8.97					
149878	DC 1897		21.3	0.20	6.25	240.	234.					
149879	DC 1997		0.7	0.05	1.56	6.62	5.06					
149880	DC 2097		2.2	0.37	11.6	25.3	13.7					

Abbreviations used in acid base accounting: I.S.= Total Sulfur, AB= Acid Base, ABP= Acid Base Potential, PyrS= Pyritic Sulfur, Pyr+Org= Pyritic Sulfur + Organic Sulfur,
Neut. Pot.= Neutralization Potential



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ENERGY WEST MINING COMPANY
HUNTINGTON, UTAH
MINE: DEER CREEK

January 7, 1998

Page 3 of 3

Lab No.	Location	Depths	Boron ppm	Selenium ppm	Molybdenum ppm	Iron ppm	Zinc ppm	Avail Na meq/100g	S04 PE meq/l
149876	DC 1697		0.04	<0.02	<0.05	44.6	0.16	0.29	64.5
149877	DC 1797		0.51	<0.02	<0.05	29.5	0.16	0.91	6.51
149878	DC 1897		0.43	<0.02	0.36	47.2	0.19	0.84	16.5
149879	DC 1997		0.28	0.02	<0.05	23.6	0.79	0.46	6.45
149880	DC 2097		0.40	<0.02	<0.05	8.18	0.07	0.60	14.7

Abbreviations for extractants: PE= Saturated Paste Extract, H20Sol= water soluble, AB-DIPA= Ammonium Bicarbonate-DIPA, AA0= Acid Ammonium Oxalate
Miscellaneous Abbreviations: Sat= Sodium Adsorption Ratio, CEC= Cation Exchange Capacity, ESP= Exchangeable Sodium Percentage, Exch= Exchangeable, Avail= Available

TO: Chuck Semborski

December 9, 1997

FROM: Tom Lloyd

SUBJECT: Annual Waste Rock Sampling, 1997

Annual sampling of the Cottonwood Mine, Waste Rock Site is complete for the 1997. Sample results indicate the percent coal by weight is 22.4 percent, and rock is 77.6 percent (see Table).

Samples were collected from material piles placed at site in the past few months. Samples were classified as coal, rock and fines and segregated into barrels for further testing. These samples were taken to the CT&E where they were weighed, and ash analyses were performed on the coal and fines (see analyses)

cc: S. Semborski

**Waste Rock Site
Cottonwood Mine**

**December 9th 1997
Annual Sampling
Sampled by Tom Lloyd
Sampled on December 4th, 1997**

	Ash	Weight (lbs)	Weighted Ash % Rock
Fines	46.5	210.8	18.3
Coal	7.7	7.7	0.1
Rock	100.0	316.3	59.1
Total		534.7	77.6

Total Coal	22.4
Total Rock	77.6



COMMERCIAL TESTING & ENGINEERING CO.

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SINCE 1909



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PLEASE ADDRESS ALL CORRESPONDENCE TO:
P.O. BOX 1020
HUNTINGTON, UT 84528
TEL: (801) 853-2311
FAX: (801) 853-2438

December 8, 1997

PACIFICORP FIELD OFFICE
P.O. Box 1005
Huntington UT 84528

Sample identification by

Kind of sample
reported to us

Sample taken at

Sample taken by PacificCorp

Date sampled December 4, 1997

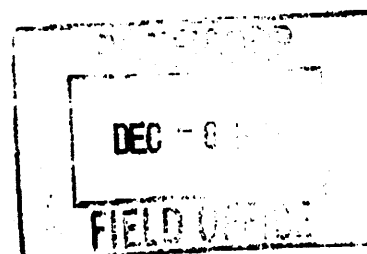
Date received December 4, 1997

TRAIL/COTTONWOOD
WASTE ROCK SITE
1 BARREL
ROCK
316.25 LBS.
EST. TOP SIZE +10"

Analysis report no. 59-206794

ROCK 316.25 LBS.

Post-It™ brand fax transmittal memo 7671		# of pages >	1
To	Sam Lloyd		
From			
Co.	Co.		
Dept.	Mining		
Fax #	Fax #		



Respectfully submitted,
COMMERCIAL TESTING & ENGINEERING CO.

[Signature]
Huntington Laboratory



OVER 40 BRANCH LABORATORIES STRATEGICALLY LOCATED IN PRINCIPAL COAL MINING AREAS, THERMAL AND GREAT LAKES PORTS, AND RIVER LOADING FACILITIES

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PLEASE ADDRESS ALL CORRESPONDENCE TO:
P.O. BOX 1020
HUNTINGTON, UT 84528
TEL: (801) 653-2311
FAX: (801) 653-2436

December 5, 1997

PACIFICORP FIELD OFFICE
P.O. Box 1005
Huntington UT 84528

Sample identification by

Kind of sample
reported to us

Sample taken at

Sample taken by PacificCorp

Date sampled December 4, 1997

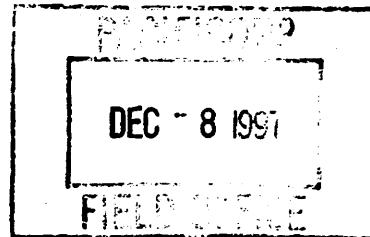
Date received December 4, 1997

TRAIL/COTTONWOOD
WASTE ROCK SITE
1 BARREL
FINES
210.75 LBS.
EST. TOP SIZE +4"

Analysis report no. 59-206795

MOISTURE/ASH ANALYSIS

	<u>As Received</u>	<u>Dry Basis</u>
% Moisture	7.14	XXXXX
% Ash	46.49	50.06



Respectfully submitted,
COMMERCIAL TESTING & ENGINEERING CO.

[Signature]
Huntington Laboratory



OVER 40 BRANCH LABORATORIES STRATEGICALLY LOCATED IN PRINCIPAL COAL MINING AREAS, TIDEWATER AND GREAT LAKES PORTS, AND RIVER LOADING FACILITIES

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PLEASE ADDRESS ALL CORRESPONDENCE TO:
P.O. BOX 1020
HUNTINGTON, UT 84528
TEL: (801) 653-2311
FAX: (801) 653-2436

December 5, 1997

PACIFICORP FIELD OFFICE
P.O. Box 1005
Huntington UT 84528

Sample identification by

Kind of sample
reported to us

Sample taken at

Sample taken by PacificCorp

Date sampled December 4, 1997

Date received December 4, 1997

TRAIL/COTTONWOOD
WASTE ROCK SITE
1 BARREL
COAL
193.0 LBS.
EST. TOP SIZE +6"

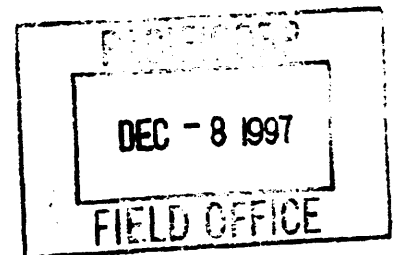
Analysis report no. 59-206795

MOISTURE/ASH ANALYSIS

	<u>As Received</u>	<u>Dry Basis</u>
% Moisture	4.15	XXXXXX
% Ash	7.74	8.08

Post-It™ brand fax transmittal memo 7671 # of pages 2

To <i>Tom Lloyd</i>	From
Co.	Co.
Dept.	Phone #
Fax #	Fax #



Respectfully submitted,
COMMERCIAL TESTING & ENGINEERING CO.

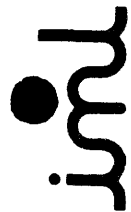
[Signature]
Huntington Laboratory



OVER 40 BRANCH LABORATORIES STRATEGICALLY LOCATED IN PRINCIPAL COAL MINING AREAS, TIDEWATER AND GREAT LAKES PORTS, AND RIVER LOADING FACILITIES

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Sheridan, Wyoming 82801

Tel. (307) 672-8945

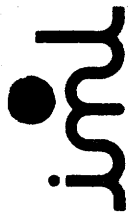
ENERGY WEST MINING COMPANY
HUNTINGTON, UTAH
MINE: COTTONWOOD

May 2, 1997

Page 1 of 1

Lab No.	Location	Depths inches	pH	EC mmhos/cm @ 25°C	Calcium meq/l	Magnesium meq/l	Sodium meq/l	SAR	Sand %	Silt %	Clay %	Texture	Boron ppm	Selenium ppm
140610	CTW 0197	0.0-8.0	7.0	7.87	29.5	23.6	53.0	10.3	82.0	7.0	11.0	LOAMY SAND	1.83	0.04
140611	CTW 0297	12.0-18.0	8.3	5.46	16.6	7.00	39.4	11.5	90.0	4.0	6.0	SAND	1.26	0.02
140612	CTW 0397	6.0-12.0	8.6	5.22	10.9	3.34	44.0	16.5	86.0	5.0	9.0	LOAMY SAND	1.50	0.04
140613	CTW 0497	4.0-12.0	7.9	3.81	6.08	4.10	32.4	14.3	86.0	7.0	7.0	LOAMY SAND	1.83	0.02

Miscellaneous Abbreviations: SAR= Sodium Adsorption Ratio, CEC= Cation Exchange Capacity, ESP= Exchangeable Sodium Percentage, Exch= Exchangeable, Avail= Available



Inter-Mountain Laboratories, Inc.

1633 Terra Avenue

Sheridan, Wyoming 82801

Tel. (307) 672-8945

ENERGY WEST MINING COMPANY
HUNTINGTON, UTAH

MINE: COTTONWOOD

April 30, 1997

Page 1 of 1

Lab No.	Location	Depths inches	*****PTNES*****			Texture
			Sand %	Silt %	Clay %	
140610	CTW 0197	0.0-8.0	56.2	28.8	15.0	SANDY LOAM
140611	CTW 0297	12.0-18.0	60.2	26.8	13.0	SANDY LOAM
140612	CTW 0397	6.0-12.0	63.2	24.8	12.0	SANDY LOAM
140613	CTW 0497	4.0-12.0	61.2	25.8	13.0	SANDY LOAM

**Energy West
Munsell Color**

Lab No.	Location	Color
140610	CTW 0197	2.5Y 3/1 Very Dark Gray
140611	CTW 0297	5Y 3/1 Very Dark Gray
140612	CTW 0397	5Y 2.5/1 Black
140613	CTW 0497	10YR 2/1 Black

April 28, 1997

ENERGY WEST MINING COMPANY
Mine: COTTONWOOD
HUNTINGTON, UTAH

page 1 of 2

Location: CTW 0197
Lab No.: 140610

Sieve Size	Weight	% Retained	% Passing
3/8"	146.1	29.2	70.8
#4	54.6	10.9	59.9
#10	58.7	11.7	48.1
#20	54.8	11.0	37.2
#40	43.6	8.7	28.4
#60	30.9	6.2	22.3
#100	29.8	6.0	16.3
#140	26.5	5.3	11.0
#200	11.0	2.2	8.8
PAN	44.1	8.8	

Location: CTW 0297
Lab No.: 140611

Sieve Size	Weight	% Retained	% Passing
3/8"	150.0	30.0	70.0
#4	68.7	13.7	56.3
#10	61.3	12.3	44.0
#20	62.3	12.5	31.6
#40	45.9	9.2	22.4
#60	30.9	6.2	16.2
#100	28.5	5.7	10.5
#140	21.9	4.4	6.1
#200	5.8	1.2	5.0
PAN	24.8	5.0	

April 28, 1997

ENERGY WEST MINING COMPANY
Mine: COTTONWOOD
HUNTINGTON, UTAH

page 2 of 2

Location: CTW 0397

Lab No.: 140612

Sieve Size	Weight	% Retained	% Passing
3/8"	222.1	44.4	55.6
#4	76.9	15.4	40.2
#10	52.4	10.5	29.7
#20	36.7	7.3	22.4
#40	24.2	4.8	17.6
#60	17.0	3.4	14.2
#100	18.9	3.8	10.4
#140	19.7	3.9	6.5
#200	6.8	1.4	5.1
PAN	25.4	5.1	

Location: CTW 0497

Lab No.: 140613

Sieve Size	Weight	% Retained	% Passing
3/8"	200.9	40.2	59.8
#4	54.9	11.0	48.8
#10	55.7	11.1	37.7
#20	51.3	10.3	27.4
#40	37.6	7.5	19.9
#60	24.9	5.0	15.0
#100	23.0	4.6	10.4
#140	23.2	4.6	5.7
#200	4.5	0.9	4.8
PAN	24.1	4.8	



1633 Terra Avenue
Sheridan, Wyoming 82801
Tel. (307) 672-8945
Fax (307) 672-6053

November 10, 1997

Mr. Richard Northrup
Energy West
P.O. Box 310
Huntington, Utah 84528

Dear Mr. Northrup:

Enclosed are the results for the soil analysis for the samples our laboratory received on October 7, 1997. The analyses were completed according to methods described in USDA Handbook 60 and the American Society of Agronomy monographs.

We have centralized our invoicing. All invoices are mailed separately from the report.

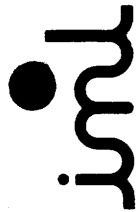
Feel free to contact me at your convenience if you have any questions or concerns.

Sincerely,

A handwritten signature in dark ink, appearing to be 'J. Sheeley', written over a circular stamp or mark.

Joey Sheeley
Mining Soils

xc: File
Encl.



InterMountain Laboratories, Inc.

1633 Terra Avenue

Sheridan, Wyoming 82801

Tel. (307) 672-8945

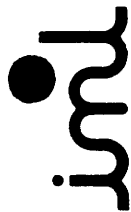
DATE SAMPLED: 9/16/97
November 4, 1997

ENERGY WEST MINING COMPANY
HUNTINGTON, UTAH
MINE: COTTONWOOD
SITE: SEDIMENT PONDS

Page 1 of 4

Lab No.	Location	Depths	pH	EC mmhos/cm @ 25°C	Satur- ation %	Calcium meq/l	Magnesium meq/l	Sodium meq/l	SAR	Sand %	Silt %	Clay %	Texture	Total Organic Carbon %
148638	CTW 11/1297		7.8	8.02	36.1	7.23	6.18	64.5	24.9	70.0	17.0	13.0	SANDY LOAM	65.3
148639	CTW 13/1497		7.7	2.61	33.4	9.53	6.43	12.6	4.47	70.0	21.0	9.0	SANDY LOAM	39.7
148640	DBD 15/1697		8.1	7.18	28.0	17.7	15.9	52.8	12.9	38.0	41.0	21.0	LOAM	3.8

Miscellaneous Abbreviations: SAR= Sodium Adsorption Ratio, CEC= Cation Exchange Capacity, ESP= Exchangeable Sodium Percentage, Exch= Exchangeable, Avail= Available



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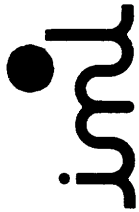
DATE SAMPLED: 9/16/97
November 4, 1997

ENERGY WEST MINING COMPANY
HUNTINGTON, UTAH
MINE: COTTONWOOD
SITE: SEDIMENT PONDS

Page 2 of 4

Lab No.	Location	Depths	Total Sulfur %	T.S.		Neut.		T.S.		Sulfate Sulfur %	Pyritic Sulfur %	Organic Sulfur %	PyrS		P	Boron ppm	Avail Na meq/100g	Exch Na meq/100g
				AB t/1000t	t/1000t	Pot. t/1000t	ABP t/1000t	AB t/1000t	ABP t/1000t									
148638	CTW 11/1297		0.51	15.9	90.6			74.7						0.50	0.91	4.05	1.72	
148639	CTW 13/1497		0.48	15.0	211.			196.						1.83	0.18	1.11	0.69	
148640	DBD 15/1697		0.51	15.9	169.			153.						0.25	0.31	3.38	1.90	

Abbreviations used in acid base accounting: T.S.= Total Sulfur, AB= Acid Base, ABP= Acid Base Potential, PyrS= Pyritic Sulfur, Pyr+Org= Pyritic Sulfur + Organic Sulfur, Neut. Pot.= Neutralization Potential
Miscellaneous Abbreviations: SAR= Sodium Adsorption Ratio, CEC= Cation Exchange Capacity, ESP= Exchangeable Sodium Percentage, Exch= Exchangeable, Avail= Available



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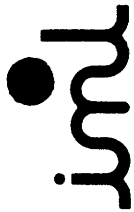
DATE SAMPLED: 9/16/97
November 4, 1997

ENERGY WEST MINING COMPANY
HUNTINGTON, UTAH
MINE: COTTONWOOD
SITE: SEDIMENT PONDS

Page 3 of 4

Lab No.	Location	Depths	Chloride		Total Calcium	Total Cobalt	Total Cadmium	Total Copper	Total Chromium	Total Lead	Total Molybdenum	Total Nickel	Total Vanadium	Total Selenium	Total Iron	Total Manganese
			PE	meq/l	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
148638	CTW 11/1297		63.8		30700.	1.98	<0.50	9.92	20.3	<5.00	<0.50	7.44	3420.	1.62	6990.	53.1
148639	CTW 13/1497		6.14		58700.	1.49	<0.50	8.95	13.9	<5.00	<0.50	9.45	2750.	1.29	7800.	89.0
148640	DBD 15/1697		15.6		42900.	3.93	<0.50	12.8	43.2	<5.00	<0.50	16.2	9380.	0.91	12100.	123.

Abbreviations for extractants: PE= Saturated Paste Extract, H20Sol= water soluble, AB-DTPA= Ammonium Bicarbonate-DTPA, AA0= Acid Ammonium Oxalate



InterMountain Laboratories, Inc.

Sheridan, Wyoming 82801

Tel. (307) 672-8945

1633 Terra Avenue

ENERGY WEST MINING COMPANY
HUNTINGTON, UTAH
MINE: COTTONWOOD
SITE: SEDIMENT PONDS

DATE SAMPLED: 9/16/97
November 4, 1997

Page 4 of 4

Lab No.	Location	Depths	Total		Total	
			Zinc ppm	Kjeldahl Nitrogen %	Sodium ppm	
148638	CTW 11/1297		33.7	0.85	3640.	
148639	CTW 13/1497		26.8	0.53	3230.	
148640	DBD 15/1697		49.6	0.05	2510.	

Client: IML - Sheridan Lab
1633 Terra Avenue
Sheridan, WY 82801

Project: E. West
Sample ID: 148638
Lab ID: 0297W04318
Matrix: Soil
Condition: Intact

Report Date: 11/05/97
Date Received: 10/15/97
Time Received: 1650
Date Sampled: 10/14/97
Time Sampled: 1300

Parameter	Concentration	Units	MDL
<i>Method 1311 - TCLP Extraction</i>			
Benzene	0.0043	mg/L	0.0002
Total Organic Halogens	0.570	mg/L	0.03

Reference: Test Methods for Evaluating Solid Waste, SW-846, U.S.E.P.A., Third Edition, Final Update II, 1994.

Reviewed By: 

Client: IML - Sheridan Lab
1633 Terra Avenue
Sheridan, WY 82801

Project: E. West
Sample ID: 148639
Lab ID: 0297W04319
Matrix: Soil
Condition: Intact

Report Date: 11/05/97
Date Received: 10/15/97
Time Received: 1650
Date Sampled: 10/14/97
Time Sampled: 1300

Parameter	Concentration	Units	MDL
Method 1311 - TCLP Extraction			
Benzene	0.0012	mg/L	0.0002
Total Organic Halogens	33	mg/L	0.03

Reference: Test Methods for Evaluating Solid Waste, SW-846, U.S.E.P.A., Third Edition, Final Update II, 1994.

Reviewed By: 

Client: IML - Sheridan Lab
1633 Terra Avenue
Sheridan, WY 82801

Project: E. West
Sample ID: 148640
Lab ID: 0297W04320
Matrix: Soil
Condition: Intact

Report Date: 11/05/97
Date Received: 10/15/97
Time Received: 1650
Date Sampled: 10/14/97
Time Sampled: 1300

Parameter	Concentration	Units	MDL
Method 1311 - TCLP Extraction			
Benzene	0.0018	mg/L	0.0002
Total Organic Halogens	0.540	mg/L	0.03

Reference: Test Methods for Evaluating Solid Waste, SW-846, U.S.E.P.A., Third Edition, Final Update II, 1994.

Reviewed By: 

TOXICITY CHARACTERISTIC LEACHING PROCEDURE
TRACE METAL CONCENTRATIONS
Quality Control/Blank Analysis

Client: **Energy West Mining Company**
Sample ID: **TCLP Blank**
Matrix: **Soil**

Date Reported: 11/04/97

Date Extracted: 10/20/97

Parameter:	Analytical Result	Units
Arsenic	<0.2	mg/L
Barium	<0.5	mg/L
Cadmium	<0.05	mg/L
Chromium	<0.01	mg/L
Lead	<0.2	mg/L
Mercury	<0.005	mg/L
Selenium	<0.2	mg/L
Silver	<0.05	mg/L

Method 6010A : Inductively Coupled Plasma-Atomic Emission Spectroscopy, SW-846, Nov. 1990.
Method 7470A : Mercury in Liquid Waste (Manual Cold Vapor Technique), SW-846, Nov. 1990.

Reviewed by: 

**TOXICITY CHARACTERISTIC LEACHING PROCEDURE
TRACE METAL CONCENTRATIONS**

Client: **Energy West Mining Company**
Sample ID: CTW 11/1297
Lab ID: 148638
Matrix: soil
Condition: Cool/Intact

Date Reported: 11/04/97
Date Sampled: 09/16/97
Date Received: 10/07/97
TCLP Extract: 10/20/97
Date Analyzed: 10/22/97

Parameter:	Analytical Result	Regulatory Level	Units
Arsenic	<0.2	5.0	mg/L
Barium	2.1	100	mg/L
Cadmium	<0.05	1.0	mg/L
Chromium	<0.01	5.0	mg/L
Lead	<0.2	5.0	mg/L
Mercury	<0.005	0.20	mg/L
Selenium	<0.2	1.0	mg/L
Silver	<0.05	5.0	mg/L

Toxicity Characteristic Leaching Procedure, Final Rule, Federal Register, 40 CFR 261-302,
Part V, EPA Vol. 55, No. 126, June 29, 1990.

Method 6010A : Inductively Coupled Plasma-Atomic Emission Spectroscopy, SW-846, Nov. 1990.

Method 7470A : Mercury in Liquid Waste (Manual Cold Vapor Technique), SW-846, Nov. 1990.

Reviewed by: JS

TOXICITY CHARACTERISTIC LEACHING PROCEDURE
TRACE METAL CONCENTRATIONS

Client: **Energy West Mining Company**
Sample ID: CTW 13/14/97
Lab ID: 148639
Matrix: soil
Condition: Cool/Intact

Date Reported: 11/04/97
Date Sampled: 09/16/97
Date Received: 10/07/97
TCLP Extract: 10/20/97
Date Analyzed: 10/22/97

Parameter:	Analytical Result	Regulatory Level	Units
Arsenic	<0.2	5.0	mg/L
Barium	2.3	100	mg/L
Cadmium	<0.05	1.0	mg/L
Chromium	<0.01	5.0	mg/L
Lead	<0.2	5.0	mg/L
Mercury	<0.005	0.20	mg/L
Selenium	<0.2	1.0	mg/L
Silver	<0.05	5.0	mg/L

Toxicity Characteristic Leaching Procedure, Final Rule, Federal Register, 40 CFR 261-302,
Part V, EPA Vol. 55, No. 126, June 29, 1990.

Method 6010A : Inductively Coupled Plasma-Atomic Emission Spectroscopy, SW-846, Nov. 1990.

Method 7470A : Mercury in Liquid Waste (Manual Cold Vapor Technique), SW-846, Nov. 1990.

Reviewed by: 

TOXICITY CHARACTERISTIC LEACHING PROCEDURE
TRACE METAL CONCENTRATIONS

Client: **Energy West Mining Company**
Sample ID: CTW 13/14/97
Lab ID: 148640
Matrix: soil
Condition: Cool/Intact

Date Reported: 11/04/97
Date Sampled: 09/16/97
Date Received: 10/07/97
TCLP Extract: 10/20/97
Date Analyzed: 10/22/97

Parameter:	Analytical Result	Regulatory Level	Units
Arsenic	<0.2	5.0	mg/L
Barium	<0.5	100	mg/L
Cadmium	<0.05	1.0	mg/L
Chromium	<0.01	5.0	mg/L
Lead	<0.2	5.0	mg/L
Mercury	<0.005	0.20	mg/L
Selenium	<0.2	1.0	mg/L
Silver	<0.05	5.0	mg/L

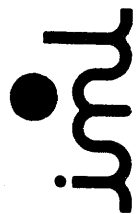
Toxicity Characteristic Leaching Procedure, Final Rule, Federal Register, 40 CFR 261-302,
Part V, EPA Vol. 55, No. 126, June 29, 1990.

Method 6010A : Inductively Coupled Plasma-Atomic Emission Spectroscopy, SW-846, Nov. 1990.

Method 7470A : Mercury in Liquid Waste (Manual Cold Vapor Technique), SW-846, Nov. 1990.

Reviewed by: _____





InterMountain Laboratories, Inc.

1633 Terra Avenue

Sheridan, Wyoming 82801

Tel. (307) 672-8945

ENERGY WEST MINING COMPANY
HUNTINGTON, UTAH
MINE: DEER CREEK WRS

January 24, 1997

Page 1 of 1

Lab No.	Location	Depths	pH	EC mmhos/cm @ 25°C	Calcium meq/l	Magnesium meq/l	Sodium meq/l	SAR	Sand %	Silt %	Clay %	Texture	Boron ppm	Selenium ppm
139239	DC 0197		9.5	40.0	6.38	2.71	192.	90.1	68.6	19.4	12.0	SANDY LOAM	1.60	0.18
139240	DC 0297		8.0	1.80	4.08	3.20	9.63	5.05	87.0	9.0	4.0	SAND	0.53	<0.02
139241	DC 0397		7.5	16.6	13.1	10.4	157.	45.8	88.0	9.0	3.0	SAND	0.62	<0.02
139242	DC 0497		8.0	3.38	9.90	3.79	19.2	7.32	89.2	6.8	4.0	SAND	0.52	<0.02

Miscellaneous Abbreviations: SAR= Sodium Adsorption Ratio, CEC= Cation Exchange Capacity, ESP= Exchangeable Sodium Percentage, Exch= Exchangeable, Avail= Available

**Energy West
Munsell Color**

Lab No.	Location	Color
139239	DC 0197	2.5Y 3/1 VERY DARK GRAY
139240	DC 0297	5Y 2.5/1 BLACK
139241	DC 0397	5Y 2.5/1 BLACK
139242	DC 0497	5Y 2.5/1 BLACK



1633 Terra Avenue
Sheridan, Wyoming 82801
Tel. (307) 672-8945
Fax (307) 672-6053

June 24, 1997

Mr. Richard Northrup
Energy West
P.O. Box 310
Huntington, Utah 84528

Dear Mr. Northrup:

Enclosed are the results for the soil analysis for the samples our laboratory received on June 11, 1997. The analyses were completed according to methods described in USDA Handbook 60 and the American Society of Agronomy monographs.

We have centralized our invoicing. All invoices are mailed separately from the report.

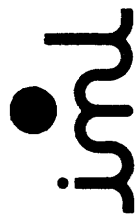
Feel free to contact me at your convenience if you have any questions or concerns.

Sincerely,

A handwritten signature in cursive script that reads "Joey Sheeley".

Joey Sheeley
Mining Soils

xc: File
Encl.



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1633 Terra Avenue

Sheridan, Wyoming 82801

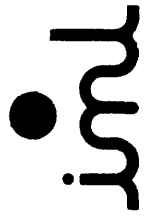
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June 24, 1997

Page 1 of 3

ENERGY WEST MINING COMPANY
HUNTINGTON, UTAH
MINE: COTTONWOOD

Lab No.	Location	Depths feet	pH	EC mahos/cm @ 25°C	Satur- ation %	Calcium meq/l	Magnesium meq/l	Sodium meq/l	SAR	Sand %	Silt %	Clay %	texture
142240	CTW 0597	0.0-1.0	7.6	0.81	34.8	1.11	2.47	4.43	3.31	46.0	36.0	18.0	LOAM
142241	CTW 0697	0.0-1.0	7.9	0.51	27.0	1.30	1.14	2.24	2.03	68.0	22.0	10.0	SANDY LOAM
142242	CTW 0797	0.0-1.0	7.9	0.60	28.9	1.17	2.07	2.26	1.78	44.0	38.0	18.0	LOAM
142243	CTW 0897	0.0-1.0	7.8	0.51	25.2	1.52	2.26	1.12	0.82	58.0	29.0	13.0	SANDY LOAM
142244	CTW 0997	0.0-1.0	7.9	0.53	30.9	1.38	2.36	1.26	0.92	26.0	58.0	16.0	SILT LOAM
142245	CTW 1097	0.0-1.0	7.6	1.51	31.8	5.48	9.36	4.10	1.50	18.0	57.0	25.0	SILT LOAM



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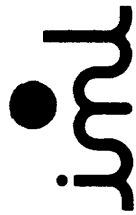
June 24, 1997

Page 2 of 3

ENERGY WEST MINING COMPANY
HUNTINGTON, UTAH
MINE: COTTONWOOD

Lab No.	Location	Depths feet	Total Organic Carbon %	Total Sulfur %	T.S. AB t/1000t	Neut. Pot. t/1000t	T.S. ABP t/1000t	Sulfate Sulfur %	Pyritic Sulfur %	Organic Sulfur %	PyrS AB t/1000t	PyrS ABP t/1000t
142240	CTW 0597	0.0-1.0	16.3	0.06	1.87	417.	416.					
142241	CTW 0697	0.0-1.0	4.0	<0.01	0.00	337.	337.					
142242	CTW 0797	0.0-1.0	6.7	0.01	0.31	448.	448.					
142243	CTW 0897	0.0-1.0	7.8	<0.01	0.00	392.	392.					
142244	CTW 0997	0.0-1.0	8.6	<0.01	0.00	562.	562.					
142245	CTW 1097	0.0-1.0	8.5	0.04	1.25	531.	530.					

Abbreviations used in acid base accounting: T.S.= Total Sulfur, AB= Acid Base, ABP= Acid Base Potential, PyrS= Pyritic Sulfur, Pyr+Org= Pyritic Sulfur + Organic Sulfur,
Neut. Pot.= Neutralization Potential



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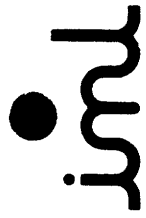
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ENERGY WEST MINING COMPANY
HUNTINGTON, UTAH
MINE: COTTONWOOD

June 24, 1997

Page 3 of 3

Lab No.	Location	Depths feet	P ppm	K ppm	Boron ppm	Selenium ppm	Total Kjeldahl Nitrogen %	1/3 bar	15 bar
142240	CTW 0597	0.0-1.0	0.17	183.	0.94	<0.02	0.12	17.0	10.3
142241	CTW 0697	0.0-1.0	1.66	141.	0.47	<0.02	0.08	14.8	4.7
142242	CTW 0797	0.0-1.0	0.25	139.	0.61	<0.02	0.13	14.1	6.2
142243	CTW 0897	0.0-1.0	1.30	51.0	0.37	<0.02	0.13	12.2	4.8
142244	CTW 0997	0.0-1.0	0.06	95.0	0.45	<0.02	0.12	14.2	5.2
142245	CTW 1097	0.0-1.0	0.09	133.	0.36	0.02	0.07	14.4	6.5



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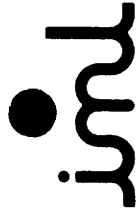
ENERGY WEST MINING COMPANY
HUNTINGTON, UTAH
MINE: COTTONWOOD

June 24, 1997

Page 1 of 3

Lab No.	Location	Depths feet	pH	EC mmhos/cm @ 25°C	Satur- ation %	Calcium meq/l	Magnesium meq/l	Sodium meq/l	SAR	Sand %	Silt %	Clay %	Texture
142245	CTW 1097	0.0-1.0	7.6	1.51	31.8	5.48	9.36	4.10	1.50	18.0	57.0	25.0	SILT LOAM
142247	142245(DUP)	0.0-1.0	7.6	1.84	32.3	6.63	11.0	4.82	1.62	17.0	58.0	25.0	SILT LOAM

Miscellaneous Abbreviations: SAR= Sodium Adsorption Ratio, DEC= Cation Exchange Capacity, ESP= Exchangeable Sodium Percentage, Exch= Exchangeable, Avail= Available



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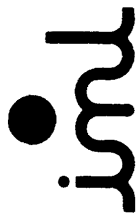
June 24, 1997

Page 2 of 3

ENERGY WEST MINING COMPANY
HUNTINGTON, UTAH
MINE: COTTONWOOD

Lab No.	Location	Depths feet	Total		T.S. AB t/1000t	Neut. Pot. t/1000t	T.S. ABP t/1000t	Sulfate Sulfur %	Pyritic Sulfur %	Organic Sulfur %	PyrS	
			Organic Carbon %	Total Sulfur %							AB t/1000t	ABP t/1000t
142245	CTW 1097	0.0-1.0	8.5	0.04	1.25	531.	530.					
142247	142245(DUP)	0.0-1.0	8.3	0.05	1.56	517.	516.					

Abbreviations used in acid base accounting: I.S.= Total Sulfur, AB= Acid Base, ABP= Pyritic Sulfur, PyrS= Pyritic Sulfur + Organic Sulfur, Neut. Pot.= Neutralization Potential



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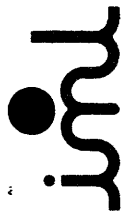
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ENERGY WEST MINING COMPANY
HUNTINGTON, UTAH
MINE: COTTONWOOD

June 24, 1997

Page 3 of 3

Lab No.	Location	Depths feet	P ppm	K ppm	Boron ppm	Selenium ppm	Total		1/3 bar	15 bar
							Kjeldahl	Nitrogen %		
142245	CIW 1097	0.0-1.0	0.09	133.	0.36	0.02	0.07		14.4	6.5
142247	142245(DUP)	0.0-1.0	0.12	137.	0.36	0.02	0.09		14.1	6.4



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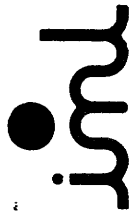
ENERGY WEST MINING COMPANY
HUNTINGTON, UTAH
MINE: DEER CREEK

May 15, 1997

Page 1 of 1

Lab No.	Location	Depths feet	pH	EC mahos/cm @ 25°C	Calcium meq/l	Magnesium meq/l	Sodium meq/l	SAR	Sand %	Silt %	Clay %	Texture	Boron ppm	Selenium ppm
140940	DC 0997	0.0-0.8	7.8	3.84	8.56	5.36	27.3	10.4	88.0	5.0	7.0	LOAMY SAND	0.91	0.02
140941	DC 1097	0.5-1.0	10.1	5.89	34.5	0.31	33.1	7.92	76.0	14.0	10.0	SANDY LOAM	0.63	0.02
140942	DC 1197	0.0-0.0	11.8	11.2	27.9	0.04	68.5	18.3	80.6	8.4	11.0	SANDY LOAM	0.29	0.02

Miscellaneous Abbreviations: SAR= Sodium Adsorption Ratio, CEC= Cation Exchange Capacity, ESP= Exchangeable Sodium Percentage, Exch= Exchangeable, Avail= Available



Inter-Mountain Laboratories, Inc.

Sheridan, Wyoming 82801

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Tel. (307) 672-8945

May 14, 1997

Page 1 of 1

ENERGY WEST MINING COMPANY
HUNTINGTON, UTAH
MINE: DEER CREEK

*****PINES*****

Lab No.	Location	Depths feet	Sand %	Silt %	Clay %	Texture
140940	DC 0997	0.0-0.8	64.0	24.0	12.0	SANDY LOAM
140941	DC 1097	0.5-1.0	56.0	32.0	12.0	SANDY LOAM
140942	DC 1197	0.0-0.0	50.0	34.0	16.0	LOAM

**Energy West
Munsell Color**

Lab No.	Location	Color
14940	DC 0997	5Y 2.5/1 Black
140941	DC 1097	10YR 3/1 Very Dark Gray
140942	DC 1197	10YR 4/1 Dark Gray

May 12, 1997

ENERGY WEST MINING COMPANY
Mine: DEER CREEK
HUNTINGTON, UTAH

page 1 of 2

Location: DC 0997
Depths: 0.0 - 0.8
Lab No.: 140940

Sieve Size	Weight	% Retained	% Passing
3/8"	238.4	47.7	52.3
#4	72.1	14.4	37.9
#10	48.6	9.7	28.2
#20	40.1	8.0	20.1
#40	31.2	6.2	13.9
#60	17.8	3.6	10.3
#100	11.3	2.3	8.1
#140	6.1	1.2	6.9
#200	7.9	1.6	5.3
PAN	26.5	5.3	

Location: DC 1097
Depths: 0.5 - 1.0
Lab No.: 140941

Sieve Size	Weight	% Retained	% Passing
3/8"	327.5	65.5	34.5
#4	43.5	8.7	25.8
#10	30.0	6.0	19.8
#20	23.7	4.7	15.1
#40	22.4	4.5	10.6
#60	13.4	2.7	7.9
#100	8.2	1.6	6.3
#140	4.2	0.8	5.4
#200	5.6	1.1	4.3
PAN	21.7	4.3	

May 12, 1997

ENERGY WEST MINING COMPANY

page 2 of 2

Mine: DEER CREEK

HUNTINGTON, UTAH

Location: DC 1197

Depths: 0.0 - 0.0

Lab No.: 140942

Sieve Size	Weight	% Retained	% Passing
3/8"	216.7	43.3	56.7
#4	67.9	13.6	43.1
#10	45.6	9.1	34.0
#20	39.5	7.9	26.1
#40	24.1	4.8	21.2
#60	14.5	2.9	18.3
#100	13.3	2.7	15.7
#140	9.3	1.9	13.8
#200	12.9	2.6	11.2
PAN	56.2	11.2	



1633 Terra Avenue
Sheridan, Wyoming 82801
Tel. (307) 672-8945
Fax (307) 672-6053

November 4, 1997

Mr. Richard Northrup
Energy West
P.O. Box 310
Huntington, Utah 84528

Dear Mr. Northrup:

Enclosed are the results for the soil analysis for the samples our laboratory received on October 16, 1997. The analyses were completed according to methods described in USDA Handbook 60 and the American Society of Agronomy monographs.

We have centralized our invoicing. All invoices are mailed separately from the report.

Feel free to contact me at your convenience if you have any questions or concerns.

Sincerely,

Joey Sheeley
Mining Soils

xc: File
Encl.



Inter-Mountain Laboratories, Inc.

1633 Terra Avenue

Sheridan, Wyoming 82801

Tel. (307) 672-8945

ENERGY WEST MINING COMPANY
HUNTINGTON, UTAH
MINE: DEER CREEK

November 4, 1997

Page 1 of 1

Lab No.	Location	Depths	pH	EC mmhos/cm @ 25°C	Calcium meg/l	Magnesium meg/l	Sodium meg/l	SAR	Sand %	Silt %	Clay %	Texture	Boron ppm	Selenium ppm
148741	DC-1297		7.7	2.41	10.1	5.98	8.12	2.86	84.0	7.0	9.0	LOAMY SAND	0.47	0.02
148742	DC-1397		7.6	1.42	5.14	3.77	4.88	2.31	88.0	4.0	8.0	LOAMY SAND	0.42	0.02
148743	DC-1497		7.5	12.2	33.7	22.1	76.8	14.5	70.0	14.0	16.0	SANDY LOAM	0.65	0.02



Inter-Mountain Laboratories, Inc.

1633 Terra Avenue

Sheridan, Wyoming 82801

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ENERGY WEST MINING COMPANY
HUNTINGTON, UTAH
MINE: DEER CREEK

November 4, 1997

Page 1 of 1

Lab No.	Location	Depths	Sand %	Silt %	Clay %	Texture
148741	DC-1297	61.0	27.0	12.0	SANDY LOAM	
148742	DC-1397	64.0	27.0	9.0	SANDY LOAM	
148743	DC-1497	42.0	36.0	22.0	LOAM	

October 23, 1997

ENERGY WEST COAL COMPANY
Mine: DEER CREEK
HUNTINGTON, UTAH

page 1 of 1

Location: DC-1297
Lab No.: 148741

Sieve Size	Weight	% Retained	% Passing
#60	80.0	80.0	20.0
#100	6.6	6.6	13.4
#140	3.4	3.4	10.1
#200	3.0	3.0	7.0
#230	1.0	1.0	6.0
PAN	6.0	6.0	

Location: DC-1397
Lab No.: 148742

Sieve Size	Weight	% Retained	% Passing
#60	84.2	84.2	15.8
#100	4.9	4.9	10.9
#140	2.3	2.3	8.6
#200	2.1	2.1	6.5
#230	0.9	0.9	5.7
PAN	5.7	5.7	

Location: DC-1497
Lab No.: 148743

Sieve Size	Weight	% Retained	% Passing
#60	65.5	65.5	34.5
#100	12.5	12.5	22.0
#140	4.3	4.3	17.7
#200	4.4	4.4	13.3
#230	10.5	10.5	2.8
PAN	2.8	2.8	

**Energy West
Munsell Color**

Lab No.	Location	Color
148741	DC 1297	5Y 2.5/1 Black
148742	DC 1397	5Y 2.5/1 Black
148743	DC 1497	10YR 3/1 Very Dark Gray



1633 Terra Avenue
Sheridan, Wyoming 82801
Tel. (307) 672-8945
Fax (307) 672-6053

December 4, 1997

Mr. Richard Northrup
Energy West
P.O. Box 310
Huntington, Utah 84528

Dear Mr. Northrup:

Enclosed are the results for the soil analysis for the samples our laboratory received on October 30, 1997. The analyses were completed according to methods described in USDA Handbook 60 and the American Society of Agronomy monographs.

We have centralized our invoicing. All invoices are mailed separately from the report.

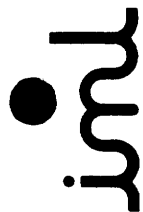
Feel free to contact me at your convenience if you have any questions or concerns.

Sincerely,

A handwritten signature in dark ink, appearing to be 'J. Sheeley', written in a cursive style.

Joey Sheeley
Mining Soils

xc: File
Encl.



Inter-Mountain Laboratories, Inc.

Sheridan, Wyoming 82801

Tel. (307) 672-8945

1633 Terra Avenue

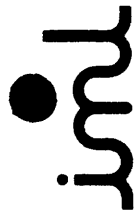
DATE SAMPLED: 10-23-97
November 12, 1997

ENERGY WEST MINING COMPANY
HUNTINGTON, UTAH
MINE: DEER CREEK
SITE: DEER CREEK SEDIMENT POND

Page 1 of 4

Lab No.	Location	Depths	pH	EC mmhos/cm @ 25°C	Satur- ation %	Calcium meq/l	Magnesium meq/l	Sodium meq/l	SAR	Sand %	Silt %	Clay %	Texture
148870	DC 1597		8.0	1.44	38.6	2.87	4.23	6.26	3.32	89.0	6.0	5.0	SAND

Miscellaneous Abbreviations: SAR= Sodium Adsorption Ratio, CEC= Cation Exchange Capacity, ESP= Exchangeable Sodium Percentage, Exch= Exchangeable, Avail= Available



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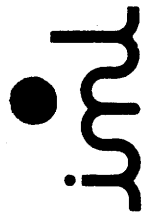
DATE SAMPLED: 10-23-97
November 12, 1997

ENERGY WEST MINING COMPANY
HUNTINGTON, UTAH
MINE: DEER CREEK
SITE: DEER CREEK SEDIMENT POND

Page 2 of 4

Lab No.	Location	Depths	Total Organic Carbon %	Total Sulfur %	T.S. AB t/1000t	Neut. Pot. t/1000t	T.S. ABP t/1000t	Sulfate Sulfur %	Pyritic Sulfur %	Organic Sulfur %	PyrS	
											AB t/1000t	ABP t/1000t
148870	DC 1597		57.7	0.38	11.9	126.	114.					

Abbreviations used in acid base accounting: T.S.= Total Sulfur, AB= Acid Base, ABP= Acid Base Potential, PyrS= Pyritic Sulfur, Pyr+Org= Pyritic Sulfur + Organic Sulfur,
Neut. Pot.= Neutralization Potential



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HUNTINGTON, UTAH

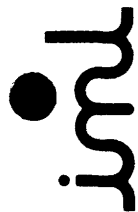
MINE: DEER CREEK

SITE: DEER CREEK SEDIMENT POND

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Lab No.	Location	Depths	P	Boron	Avail Na	Exch Na	Chloride	Total	Calcium	Total	Copper	Total	Chromium	Total	Lead	Total	Molybdenum	Total	Nickel
148870	DC 1597		<0.01	0.29	0.70	0.46	7.29	1.99	31500.		10.9	17.4			<5.0	<1.00			7.45

Abbreviations for extractants: PE= Saturated Paste Extract, H2OSol= water soluble, AB-DTPA= Ammonium Bicarbonate-DTPA, AAO= Acid Ammonium Oxalate
Miscellaneous Abbreviations: SAR= Sodium Adsorption Ratio, CEC= Cation Exchange Capacity, ESP= Exchangeable Sodium Percentage, Exch= Exchangeable, Avail= Available



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HUNTINGTON, UTAH

MINE: DEER CREEK

SITE: DEER CREEK SEDIMENT POND

DATE SAMPLED: 10-23-97
November 12, 1997

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Lab No.	Location	Depths		Total		Total		Total		Total	
		Potassium	Selenium	Iron	Manganese	Zinc	Kjeldahl	Nitrogen	Sodium		
		ppm	ppm	ppm	ppm	ppm	%		ppm		
148870	DC 1597	2360.	0.99	5270.	85.9	32.3	0.88			1930.	

TOXICITY CHARACTERISTIC LEACHING PROCEDURE
TRACE METAL CONCENTRATIONS
Quality Control/Duplicate Analysis

Client: **Energy West Mining Company**
Sample ID: DC 1597
Lab ID: 148870dup
Date Reported: 11/7/97

Parameter:	Initial Sample Result mg/L	Second Sample Result mg/L	Relative Percent Difference
Arsenic	<0.2	<0.2	0%
Barium	2.1	2.1	0%
Cadmium	<0.05	<0.05	0%
Chromium	<0.01	<0.01	0%
Lead	<0.2	<0.2	0%
Mercury	<0.005	<0.005	0%
Selenium	<0.2	<0.2	0%
Silver	<0.05	<0.05	0%

Toxicity Characteristic Leaching Procedure, Final Rule, Federal Register, 40 CFR 261-302,
Part V, EPA Vol. 55, No. 126, June 29, 1990.

Method 6010A : Inductively Coupled Plasma-Atomic Emission Spectroscopy, SW-846, Nov. 1990.

Method 7470A : Mercury in Liquid Waste (Manual Cold Vapor Technique), SW-846, Nov. 1990.

Laboratory Data Validation, Functional Guidelines for Evaluating Inorganics Analyses, USEPA, July 1988.

Reviewed by: CS

TOXICITY CHARACTERISTIC LEACHING PROCEDURE
TRACE METAL CONCENTRATIONS
Quality Control/Blank Analysis

Client: **Energy West Mining Company**
Sample ID: **TCLP Blank**
Matrix: **Soil**

Date Reported: 11/07/97
Date Extracted: 11/03/97

Parameter:	Analytical Result	Units
Arsenic	<0.2	mg/L
Barium	<0.5	mg/L
Cadmium	<0.05	mg/L
Chromium	<0.01	mg/L
Lead	<0.2	mg/L
Mercury	<0.005	mg/L
Selenium	<0.2	mg/L
Silver	<0.05	mg/L

Method 6010A : Inductively Coupled Plasma-Atomic Emission Spectroscopy, SW-846, Nov. 1990.
Method 7470A : Mercury in Liquid Waste (Manual Cold Vapor Technique), SW-846, Nov. 1990.

Reviewed by: 

Client: IML - Sheridan Lab
1633 Terra Avenue
Sheridan, WY 82801

Project: E. West

Sample ID: Energy West

Lab ID: 0297W04820/148870

Matrix: Soil

Condition: Intact

Report Date: 12/03/97

Date Received: 10/31/97

Time Received: 1700

Date Sampled: 10/30/97

Time Sampled: 1500

Parameter	Concentration	Units	MDL
Method 1311 - TCLP Extraction			
Benzene	<0.0002	mg/L	0.0002
Total Organic Halogens	26.6 CL	ppm	5

CL - Sample was analyzed by a Contract Lab.

Reference: Test Methods for Evaluating Solid Waste, SW-846, U.S.E.P.A., Third Edition, Final Update II, 1994.

Reviewed By: W.D. [Signature]

**TOXICITY CHARACTERISTIC LEACHING PROCEDURE
TRACE METAL CONCENTRATIONS**

Client: **Energy West Mining Company**
Sample ID: DC 1597
Lab ID: 148870
Matrix: soil
Condition: Cool/Intact

Date Reported: 11/07/97
Date Sampled: 10/23/97
Date Received: 10/28/97
TCLP Extract: 11/03/97
Date Analyzed: 11/05/97

Parameter:	Analytical Result	Regulatory Level	Units
Arsenic	<0.2	5.0	mg/L
Barium	2.1	100	mg/L
Cadmium	<0.05	1.0	mg/L
Chromium	<0.01	5.0	mg/L
Lead	<0.2	5.0	mg/L
Mercury	<0.005	0.20	mg/L
Selenium	<0.2	1.0	mg/L
Silver	<0.01	5.0	mg/L

Toxicity Characteristic Leaching Procedure, Final Rule, Federal Register, 40 CFR 261-302,
Part V, EPA Vol. 55, No. 126, June 29, 1990.

Method 6010A : Inductively Coupled Plasma-Atomic Emission Spectroscopy, SW-846, Nov. 1990.

Method 7470A : Mercury in Liquid Waste (Manual Cold Vapor Technique), SW-846, Nov. 1990.

Reviewed by:

January 8, 1998

Mr. Richard Northrup
Energy West
P.O. Box 310
Huntington, Utah 84528

Dear Mr. Northrup:

Enclosed are the results for the soil analysis for the samples our laboratory received on December 16, 1997. The analyses were completed according to methods described in USDA Handbook 60 and the American Society of Agronomy monographs.

We have centralized our invoicing. All invoices are mailed separately from the report.

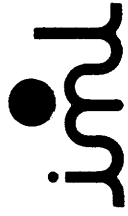
Feel free to contact me at your convenience if you have any questions or concerns.

Sincerely,



Joey Shreeley
Mining Soils

xc: File
Encl.



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ENERGY WEST MINING COMPANY
HUNTINGTON, UTAH

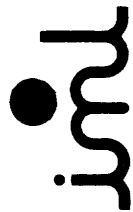
SITE: TRAIL MT. SEDIMENT POND

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January 7, 1998

Lab No.	Location	Depth	pH	EC mmhos/cm @ 25°C	Satur- ation %	Calcium meq/l	Magnesium meq/l	Sodium meq/l	SAR	Sand %	Silt %	Clay %	Texture	Total Organic Carbon %
149910	SEDIMENT POND		8.1	2.45	28.7	3.65	6.65	14.8	6.51	72.0	15.0	13.0	SANDY LOAM	59.9

Miscellaneous Abbreviations: SAR= Sodium Adsorption Ratio, CEC= Cation Exchange Capacity, ESP= Exchangeable Sodium Percentage, Exch= Exchangeable, Avail= Available



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January 7, 1998

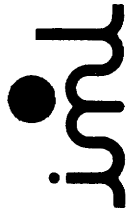
Page 2 of 4

ENERGY WEST MINING COMPANY
HUNTINGTON, UTAH

SITE: TRAIL MT. SEDIMENT POND

Lab No.	Location	Depths	Total Sulfur %	T.S. AB t/1000t	Neut. Pot. t/1000t	T.S. ABP t/1000t	Sulfate Sulfur %	Pyritic Sulfur %	Organic Sulfur %	PyrS AB t/1000t	PyrS ABP t/1000t	P ppm	Boron ppm	Avail Na meq/100g	Exch No meq/100g
149910	SEDIMENT POND		0.42	13.1	157.	144.						2.03	0.09	1.08	0.66

Abbreviations used in acid base accounting: T.S.= Total Sulfur, AB= Acid Base, ABP= Acid Base Potential, PyrS= Pyritic Sulfur, Pyr+Org= Pyritic Sulfur + Organic Sulfur, Neut. Pot.= Neutralization Potential
Miscellaneous Abbreviations: SAR= Sodium Adsorption Ratio, CEC= Cation Exchange Capacity, ESP= Exchangeable Sodium Percentage, Exch= Exchangeable, Avail= Available



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January 7, 1998

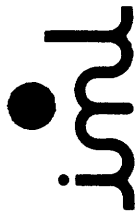
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ENERGY WEST MINING COMPANY
HUNTINGTON, UTAH

SITE: TRAIL MT. SEDIMENT POND

Lab No.	Location	Depths	Chloride PE meq/l	Total Cadmium ppm	Total Copper ppm	Total Chromium ppm	Total Lead ppm	Total Molybdenum ppm	Total Nickel ppm	Total Selenium ppm	Total Iron ppm	Total Manganese ppm	Total Zinc ppm	Total Kjeldahl Nitrogen %
149910	SEDIMENT POND		148.	0.50	11.9	19.8	<5.00	<1.00	7.43	1.56	6930.	142.	35.1	1.22

Abbreviations for extractants: PE= Saturated Paste Extract, H2OSol= water soluble, AB-DTPA= Ammonium Bicarbonate-DTPA, AAQ= Acid Ammonium Oxalate



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ENERGY WEST MINING COMPANY
HUNTINGTON, UTAH

SITE: TRAIL MT. SEDIMENT POND

January 7, 1998

Page 4 of 4

Lab No.	Location	Total		Total		Total	
		Depths	Cobalt ppm	Phosphorus ppm	Calcium ppm	Sodium ppm	
149910	SEDIMENT POND		1.98	155.	36700.	2360.	

Abbreviations for extractants: PE= Saturated Paste Extract, H₂Osol= water soluble, AB-DTPA= Ammonium Bicarbonate-DTPA, AA0= Acid Ammonium Oxalate

**TOXICITY CHARACTERISTIC LEACHING PROCEDURE
TRACE METAL CONCENTRATIONS**

Client: **Energy West Mining Company**
Sample ID: Trail Mt. Sediment Pond
Lab ID: 149910
Matrix: soil
Condition: Cool/Intact

Date Reported: 11/07/97
Date Sampled: 10/23/97
Date Received: 10/28/97
TCLP Extract: 11/03/97
Date Analyzed: 11/05/97

Parameter:	Analytical Result	Regulatory Level	Units
Arsenic	<0.2	5.0	mg/L
Barium	1.6	100	mg/L
Cadmium	<0.05	1.0	mg/L
Chromium	<0.01	5.0	mg/L
Lead	<0.2	5.0	mg/L
Mercury	<0.005	0.20	mg/L
Selenium	<0.2	1.0	mg/L
Silver	<0.05	5.0	mg/L

Toxicity Characteristic Leaching Procedure, Final Rule, Federal Register, 40 CFR 261-302, Part V, EPA Vol. 55, No. 126, June 29, 1990.

Method 6010A : Inductively Coupled Plasma-Atomic Emission Spectroscopy, SW-846, Nov. 1990.

Method 7470A : Mercury in Liquid Waste (Manual Cold Vapor Technique), SW-846, Nov. 1990.

Reviewed by: _____

TOXICITY CHARACTERISTIC LEACHING PROCEDURE
TRACE METAL CONCENTRATIONS
Quality Control/Duplicate Analysis

Client: **Energy West Mining Company**
Sample ID: Trail Mt. Sediment Pond
Lab ID: 149910dup
Date Reported: 1/7/98

Parameter:	Initial Sample Result mg/L	Second Sample Result mg/L	Relative Percent Difference
Arsenic	<0.2	<0.2	0%
Barium	1.6	1.7	3%
Cadmium	<0.05	<0.05	0%
Chromium	<0.01	<0.01	0%
Lead	<0.2	<0.2	0%
Mercury	<0.005	<0.005	0%
Selenium	<0.2	<0.2	0%
Silver	<0.05	<0.05	0%

Toxicity Characteristic Leaching Procedure, Final Rule, Federal Register, 40 CFR 261-302,
Part V, EPA Vol. 55, No. 126, June 29, 1990.

Method 6010A : Inductively Coupled Plasma-Atomic Emission Spectroscopy, SW-846, Nov. 1990.

Method 7470A : Mercury in Liquid Waste (Manual Cold Vapor Technique), SW-846, Nov. 1990.

Laboratory Data Validation, Functional Guidelines for Evaluating Inorganics Analyses, USEPA, July 1988.

Reviewed by: _____

TOXICITY CHARACTERISTIC LEACHING PROCEDURE
TRACE METAL CONCENTRATIONS
Quality Control/Blank Analysis

Client: **Energy West Mining Company**
Sample ID: TCLP Blank
Matrix: Soil

Date Reported: 01/07/98
Date Extracted: 12/31/97

Parameter:	Analytical Result	Units
Arsenic	<0.2	mg/L
Barium	<0.5	mg/L
Cadmium	<0.05	mg/L
Chromium	<0.01	mg/L
Lead	<0.2	mg/L
Mercury	<0.005	mg/L
Selenium	<0.2	mg/L
Silver	<0.05	mg/L

Method 6010A : Inductively Coupled Plasma-Atomic Emission Spectroscopy, SW-846, Nov. 1990.
Method 7470A : Mercury in Liquid Waste (Manual Cold Vapor Technique), SW-846, Nov. 1990.

Reviewed by: _____

Client: IML - Sheridan Lab
1633 Terra Avenue
Sheridan, WY 82801

Project: E. West
Sample ID: Sediment Pond
Lab ID: 0297W05665
Matrix: Soil
Condition: Intact

Report Date: 01/02/98
Date Received: 12/17/97
Time Received: 1700
Date Sampled: 12/16/97
Time Sampled: 1500

Parameter	Concentration	Units	MDL
Total Organic Halogens	1.5	mg/L	0.03

Reference: Test Methods for Evaluating Solid Waste, SW-846, U.S.E.P.A., Third Edition, Final Update II, 1994.

Reviewed By: 

**TOXICITY CHARACTERISTIC LEACHING PROCEDURE
HSL VOLATILE COMPOUNDS**

Client: **ENERGY WEST**
Sample ID: Sediment Pond
Project ID: **ENERGY WEST**
Lab ID: B975583
Matrix: Soil

Date Reported: 12/23/97
Date Sampled: 12/16/97
Date Received: 12/17/97
Date Extracted: 12/18/97
Date Analyzed: 12/20/97

Parameter	Result	PQL	Regulatory Level	Units
Benzene	ND	0.02	0.5	mg/L
QUALITY CONTROL - Surrogate Recovery		%	QC Limits	
1,2-Dichloroethane-d4	111		80 - 120	
Bromofluorobenzene	109		86 - 115	
Toluene-d8	109		88 - 110	

ND - Not Detected at Practical Quantitation Level (PQL)

Reference: Method 8260A Gas Chromatography/Mass Spectrometry for Volatile Organics, Test Methods for Evaluating Solid Wastes, SW-846, Final Update II, United States Environmental Protection Agency, September 1994.
Method 1311, Toxicity Characteristic Leaching Procedure, Test Methods for Evaluating Solid Wastes, SW-846, United States EPA, September 1994.

Analyst E. P.

Reviewed SW

**LAB QA/QC
TOXICITY CHARACTERISTIC LEACHING PROCEDURE
MATRIX SPIKE SUMMARY**

Date Analyzed: 12/21/97
Laboratory ID: G97-5583
Sample Matrix: soil
Date Extracted: 12/18/97

Parameter	Spike Added mg/L	Sample Concentration mg/L	Matrix Spike Concentration mg/L	Matrix Spike Recovery (%)
Vinyl Chloride	0.05	0	0.044	88
1,1-Dichloroethene	0.05	0	0.045	90
1,2-Dichloroethane	0.05	0	0.051	102
Chloroform	0.05	0	0.051	102
Carbon Tetrachloride	0.05	0	0.052	104
Trichloroethene	0.05	0	0.045	90
Benzene	0.05	0	0.047	94
Tetrachloroethene	0.05	0	0.046	92
Chlorobenzene	0.05	0	0.044	88
Methyl Ethyl Ketone	0.05	0	0.030	60

QUALITY CONTROL:

Surrogate Recovery	%
1,2-Dichloroethane-d4	104
Toluene-d8	95
Bromofluorobenzene	94

References:

Method 8260, Gas Chromatography/Mass Spectrometry for Volatile Organics, Test Methods for Evaluating Solid Wastes, SW-846, Final Update II, United States Environmental Protection Agency, September 1994.

Method 1311, Toxicity Characteristic Leaching Procedure, Test Methods for Evaluating Solid Wastes, SW-846, United States Environmental Protection Agency, September 1994.

E. D.

Analyst

SN

Reviewed

**LAB QA/QC
TOXICITY CHARACTERISTIC LEACHING PROCEDURE
METHOD BLANK**

Date Analyzed: 12/20/97
Lab ID: MBW97352
Matrix: Water
Date Extracted 12/18/97

Parameter	Result	PQL	Units
Benzene	ND	0.02	mg/L

QUALITY CONTROL - Surrogate Recovery %

1,2-Dichloroethane-d4	108
Bromofluorobenzene	109
Toluene-d8	106

ND - Not Detected at Practical Quantitation Level (PQL)

Analyst E-D.Reviewed SA